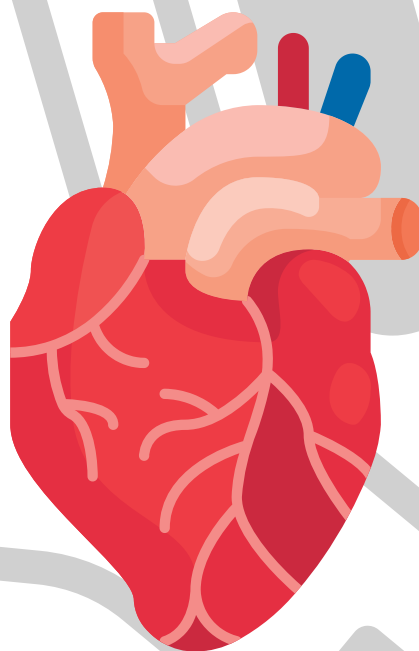




Cardiovascular

心血管



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一抗·二抗·内参&标签·重组蛋白



官方网址

www.diagbio.com

杭州市·西湖区·天润科创园



邮箱地址

sales@diagbio.com (订购咨询)

service@diagbio.com (技术支持)



微信公众号

心血管

心血管是由心和血管组成的人体结构，血管又包括动脉、静脉和毛细血管。心血管系统又称“循环系统”。由心脏、动脉、毛细血管和静脉等组成。它是一个密闭的循环管道，血液在其中流动，将氧、各种营养物质、激素等供给器官和组织，又将组织代谢的废物运送到排泄器官，以保持机体内环境的稳态、新陈代谢的进行和维持正常的生命活动。由心脏、动脉、毛细血管、静脉和流动于其中的血液组成的系统。心脏能自动并在神经系统控制下发生节律性的收缩和舒张，保证血液沿一定方向循环流动。动脉连于心脏和毛细血管之间，将血液从心脏运至组织。毛细血管连于动脉和静脉之间，互相连接成网，是血液与组织间进行物质交换的部位。静脉连于毛细血管和心之间，收集血液流回心脏。心血管活动能在机体的神经和体液调解下，改变心排血量和外周阻力，协调各器官组织之间的血流分配，以满足各器官组织对血流量的需要，保证血液单向流动。

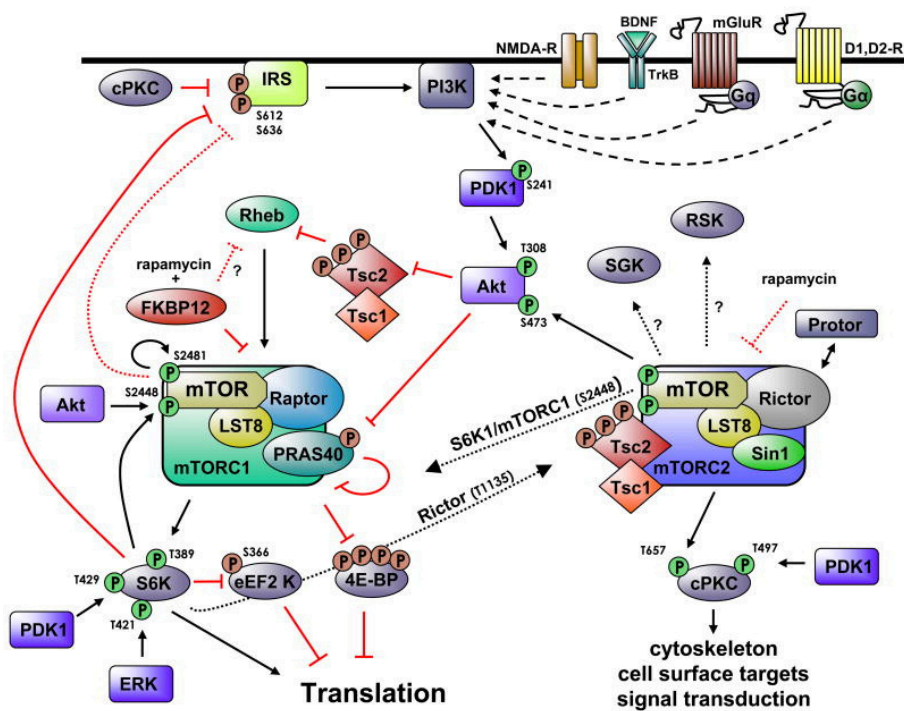
mTOR信号通路

哺乳动物雷帕霉素靶蛋白（mammalian target of rapamycin, mTOR）信号通路调节细胞的生长、代谢、增殖等过程，在细胞生长过程中扮演着重要的角色。在分化成熟的血管内皮细胞和心肌细胞中，mTOR在依赖于激活蛋白激酶B（Akt）引起的氧化应激条件下，调控细胞的凋亡和自噬过程。mTOR的这些功能通过增强血管再生和限制急性细胞死亡来促进心肌修复和组织再生。然而，在某些情况下，可以阻断mTOR信号通路来限制血管病变和促进微循环血流。

mTOR是一种高度保守的丝氨酸/苏氨酸蛋白激酶，属于磷酸肌醇3激酶（phosphoinositide 3 kinase, PI3K）相关激酶，它主要通过两种不同的蛋白复合物mTORC1和mTORC2来完成其生理功能。其中mTORC1对mTOR抑制剂雷帕霉素敏感，而mTORC2不敏感。

mTORC1主要依赖Raptor来招募底物并与其结合，mTORC1的组成成分还包括富含脯氨酸的Akt底物（PRAS40）、Deptor、mLST8和mTOR等。mTORC1调控核糖体蛋白S6K1和真核细胞翻译起始因子eIF4E-BP1。PRAS40和Deptor在mTORC1激活时发生磷酸化并从复合体中脱离，能进一步激活mTORC1的活性；而mTORC1在活化后通过磷酸化S6K1和eIF4E-BP1来控制蛋白质合成及细胞的生长。

mTORC2的组成与mTORC1相似，主要包括mTOR，Rictor、mLST8、Deptor、哺乳动物应激激活的蛋白（mSIN1）、与Rictor同时观察到的蛋白1（Pro-tor-1）。Rictor可以促进mTORC2的活性，但是对雷帕霉素不敏感。mTORC2可以调节细胞骨架肌动蛋白、细胞的大小、内皮细胞的存活与迁移以及细胞周期等生理过程，此外，还可以通过调控PKC、P-Rex1、P-Rex2、Rho GTPases以及Rho信号通路来控制细胞之间的联系。



靶标	产品货号	产品名称	反应种属	应用
AMPK	db6601	AMPK beta 1 Mouse mAb	Human	WB
	db2971	AMPK beta 1 Rabbit pAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC,IP
	db20557	AMPK gamma 1 Rabbit pAb	Human	WB,IHC,ICC/IF,FC,IP
	db8850	AMPK gamma 1 Rabbit pAb	Human, Mouse, Rat	WB,FC,IP
	db3386	AMPK alpha 2 Rabbit pAb	Human	WB,IP
	db1167	AMPK alpha 1 Rabbit pAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC,IP
	db3025	AMPK alpha 1/2 Rabbit pAb	Human, Mouse, Rat	WB,IP
	db6183	AMPK beta 1 (1A7) Mouse mAb	Human, Mouse, Rat, Monkey	WB,ICC/IF,IP,IHC-F,IHC-P
	db15433	AMPK beta 1 Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC,IP
	db15794	AMPK alpha 1 Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC,IP
	db11167	AMPK alpha 2 Recombinant Rabbit mAb	Human	WB,IP
	db14570	AMPK gamma 1 Recombinant Rabbit mAb	Human, Mouse, Rat	WB,FC,IP
	db11349	AMPK gamma 1 Recombinant Rabbit mAb	Human	WB,IHC,ICC/IF,FC,IP
	db12601	AMPK alpha 1/2 Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IP
	db20499	Phospho-AMPK alpha 1 (Ser496) Rabbit pAb	Human	WB,ICC/IF,IP
	db4248	Phospho-AMPK alpha 2 (Ser491) Rabbit pAb	Human, Mouse, Rat	WB
	db14230	Phospho-AMPK alpha 1 (Ser496) Recombinant Rabbit mAb	Human	WB,ICC/IF,IP
	db13946	Phospho-AMPK alpha 2 (Ser491) Recombinant Rabbit mAb	Human, Mouse, Rat	WB
	db7369	Phospho-AMPK alpha 1 (Thr183)/AMPK alpha 2 (Thr172) Rabbit pAb	Human, Mouse, Rat	WB
	db13913	Phospho-AMPK alpha 1 (Thr183)/AMPK alpha 2 (Thr172) Recombinant Rabbit mAb	Human, Mouse, Rat	WB

靶标	产品货号	产品名称	反应种属	应用
EIF4E	db7770	eIF4E Rabbit pAb	Human, Mouse, Rat	WB,IHC,FC,IP
	db5468	eIF4E Rabbit pAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC,IP
	db229	eIF4EBP1 Rabbit pAb	Human	WB,IHC,FC,IP
	db3054	eIF4EBP1 Rabbit pAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC,IP
	db6264	eIF4E (8C8) Mouse mAb	Human, Mouse, Rat	WB
	db13610	eIF4E Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC,IP
	db11590	eIF4E Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IHC,FC,IP
	db16017	eIF4EBP1 Recombinant Rabbit mAb	Human	WB,IHC,FC,IP
	db8101	Phospho-eIF4E (Ser209) Rabbit pAb	Human, Mouse, Rat	WB,IHC,ICC/IF,IP
	db8982	Phospho-eIF4EBP1 (Thr70) Rabbit pAb	Human	WB,IHC
	db1735	Phospho-eIF4EBP1 (Thr37) Rabbit pAb	Human, Mouse	WB
	db11218	Phospho-eIF4E (Ser209) Recombinant Rabbit mAb	Human, Mouse, Rat	WB, IHC, ICC/IF, IP
	db14062	Phospho-eIF4EBP1 (Thr37) Recombinant Rabbit mAb	Human, Mouse	WB
	db13899	Phospho-eIF4EBP1 (Thr70) Recombinant Rabbit mAb	Human	WB,IHC
	db1574	Phospho-eIF4EBP1/eIF4EBP2/eIF4EBP3 (Thr45) Rabbit pAb	Human, Mouse	WB,IHC,ICC/IF,IP
	db13818	Phospho-eIF4EBP1/eIF4EBP2/eIF4EBP3 (Thr45) Recombinant Rabbit mAb	Human, Mouse	WB,IHC,ICC/IF,IP
ERK	db4966	ERK1 Rabbit pAb	Human, Mouse	WB,IHC,ICC/IF,FC,IP
	db758	ERK1/2 Rabbit pAb	Human, Mouse, Rat	WB,ICC/IF,FC,IP
	db6568	ERK1 (8G6) Mouse mAb	Human, Rat, Mouse	IHC-P
	db6567	ERK1 (7E7) Mouse mAb	Human, Rat, Mouse	IHC-P
	db6569	ERK1 (1D10) Mouse mAb	Human, Rat, Mouse	IHC-P
	db6122	ERK1/2 (4A4) Mouse mAb	Human, Mouse, Rat	WB
	db6298	ERK1/2 (4F3) Mouse mAb	Human, Mouse, Rat	WB
	db6570	ERK1/2 (1B4) Mouse mAb	Human, Rat, Mouse	WB,IHC-P
	db6621	ERK1/2 (9A4) Mouse mAb	Human, Rat, Mouse	WB,IHC-P
	db14725	ERK1 Recombinant Rabbit mAb	Human, Mouse	WB,IHC,ICC/IF,FC,IP
	db11649	ERK1/2 Recombinant Rabbit mAb	Human, Mouse, Rat	WB,ICC/IF,FC,IP
MEK1	db20562	MEK1 Rabbit pAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC,IP
	db1784	MEK1 Rabbit pAb	Human	WB,IHC,ICC/IF,IP
	db626	MEK1 Rabbit pAb	Human	WB,ICC/IF,FC,IP
	db13663	MEK1 Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC
	db13983	MEK1 Recombinant Rabbit mAb	Human	WB,IHC,ICC/IF,IP
	db15920	MEK1 Recombinant Rabbit mAb	Human	WB,ICC/IF,FC,IP
	db2079	Phospho-MEK1 (Ser298) Rabbit pAb	Human, Mouse, Rat	WB,IHC,ICC/IF
	db1747	Phospho-MEK1 (Thr292) Rabbit pAb	Human	WB
	db251	Phospho-MEK1 (Thr286) Rabbit pAb	Human	WB,IP
	db11915	Phospho-MEK1 (Ser298) Recombinant Rabbit mAb	Human, Mouse, Rat	WB, IHC, ICC/IF
	db11129	Phospho-MEK1 (Thr292) Recombinant Rabbit mAb	Human	WB
	db14123	Phospho-MEK1 (Thr286) Recombinant Rabbit mAb	Human	WB,IP

靶标	产品货号	产品名称	反应种属	应用
EIF4B	db22375	eIF4B Rabbit pAb	Human	WB,IHC,ICC/IF,FC
	db13058	eIF4B Recombinant Rabbit mAb	Human	WB,IHC,ICC/IF,FC
	db21516	Phospho-eIF4B (Ser406) Rabbit pAb	Human, Mouse, Rat	WB,IHC
	db14066	Phospho-eIF4B (Ser406) Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IHC
LKB1	db3157	LKB1 Rabbit pAb	Human	WB,IP
	db15362	LKB1 Recombinant Rabbit mAb	Human	WB,IP
RAS	db5966	RAS Rabbit pAb	Human, Mouse, Rat	WB,ICC/IF,FC,IP
	db2525	Ras Rabbit pAb	Human, Mouse, Rat	WB,ICC/IF,IP
	db11783	RAS Recombinant Rabbit mAb	Human, Mouse, Rat	WB,FC,IP
	db14105	RAS Recombinant Rabbit mAb	Human, Mouse, Rat	WB,ICC/IF,FC,IP
	db13171	Ras Recombinant Rabbit mAb	Human, Mouse, Rat	WB,ICC/IF,IHC,IP
PI3K	db8287	PI3K-gamma Rabbit pAb	Human	WB,FC,IP
	db14641	PI3K-gamma Recombinant Rabbit mAb	Human	WB,FC,IP
RHEB	db2105	RHEB Rabbit pAb	Human	WB,IHC,ICC/IF,FC
	db15626	RHEB Recombinant Rabbit mAb	Human	WB,IHC,ICC/IF,FC
RAF1	db4640	Raf1 Rabbit pAb	Human	WB,IHC,ICC/IF
	db12651	Raf1 Recombinant Rabbit mAb	Human	WB,IHC,ICC/IF
	db24819	Phospho-RAF1 (Ser43) Rabbit pAb	Human, Mouse, Rat	WB
	db2779	Phospho-Raf1 (Ser259) Rabbit pAb	Human, Mouse, Rat	WB,IHC
	db11413	Phospho-RAF1 (Ser43) Recombinant Rabbit mAb	Human, Mouse, Rat	WB
	db12158	Phospho-Raf1 (Ser259) Recombinant Rabbit mAb	Human, Mouse, Rat	WB, IHC
RPS6	db8357	RPS6 Rabbit pAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC
	db6306	RPS6 (7B10) Mouse mAb	Human, Mouse, Rat, Monkey	WB,ICC/IF,IP
	db11631	RPS6 Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC
	db4003	Phospho-RPS6 (Ser240/Ser244) Rabbit pAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC,IP
	db13958	Phospho-RPS6 (Ser240/Ser244) Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC,IP
S6K1	db1649	S6K1 Rabbit pAb	Human, Mouse, Rat	WB,IHC,IP
	db939	S6K1 Rabbit pAb	Human, Mouse, Rat	WB,ICC/IF,FC,IP
	db6627	S6K1 (3A2) Mouse mAb	Human, Rat, Mouse	IHC-P
	db12507	S6K1 Recombinant Rabbit mAb	Human, Mouse, Rat	WB,ICC/IF,FC,IP
	db13897	S6K1 Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IHC,IP

VEGF信号通路

血管内皮生长因子（VEGF）是成人中健康和疾病期间血管发育和血液及淋巴管功能的主要调节因子。VEGF由几种细胞类型如成纤维细胞，炎性细胞和许多肿瘤细胞产生，通常响应于通过HIF-1 α 途径增加的肿瘤缺氧。目前，VEGF家族由五个结构相关因子组成：VEGFA（也称为VEGFA165，并且研究最为充分），VEGFB，VEGFC，VEGFD和胎盘生长因子（PlGF）。VEGF家族成员主要以同型二聚体多肽形式存在，尽管天然异二聚体的VEGFA和PlGF也已经被报道。内皮细胞上的主要VEGF受体是VEGFR2。VEGFR2对于发育期间和成人，生理学和病理学中的内皮细胞生物学研究是重要的靶标。目前关于VEGF受体的研究还是以VEGFR2信号传导较多。

1. 丝裂原活化的蛋白激酶（MAPK）途径

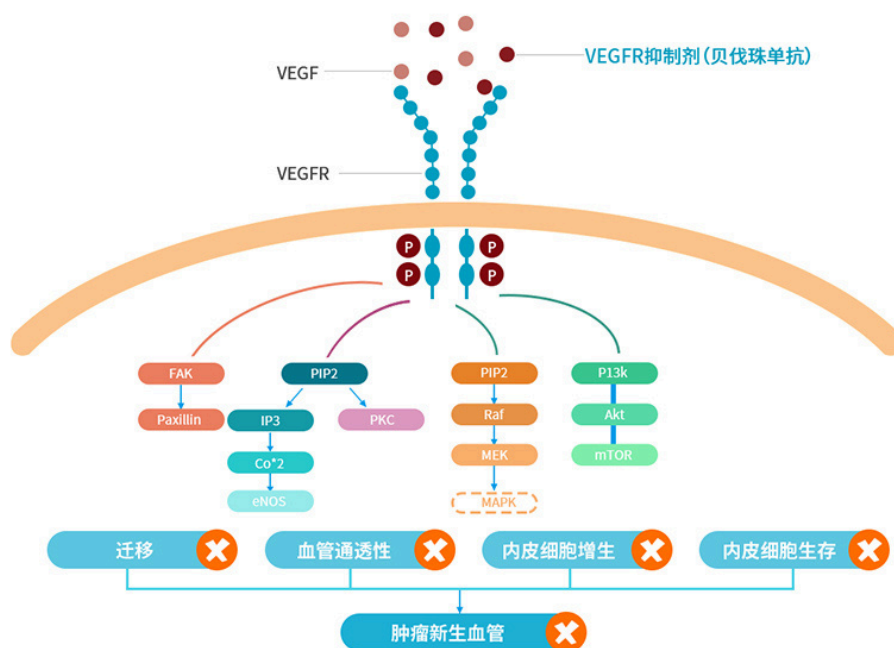
VEGF结合到VEGFR2上，引起SHC磷酸化，活化的SHC与接头蛋白（GRB2）结合，GRB2通过SH2结构域结合鸟苷酸交换蛋白（SOS），使之接近Ras，然后进一步激活MAPK级联反应：Raf1 $\rightarrow$ MEK1/2 $\rightarrow$ ERK1/2。VEGF可诱导P38-MAPK活化，P38-MAPK继而活化MAPKAKP-2/3，并使丝状肌动蛋白（F-Actin）聚合调节分子和热休克蛋白27（HSP27）发生磷酸化，引起肌动蛋白骨架的重组，产生EC移行。

2. PI3K-Akt/PKB途径

VEGF与VEGFR2结合后，PI3K发生磷酸化，活化的PI3K与底物PIP2结合将其转化为PIP3，PIP3诱导Akt/PKB磷酸化。磷酸化的Akt既可通过磷酸化BAD和Caspase9（天冬氨酸特异性半胱氨酸蛋白酶）抑制BAD和Caspase9的活性，诱导EC增生和移行，也可通过激活eNOS产生NO，控制造血功能和AMI（急性骨髓白血病）细胞的生长。

3. Ca²⁺-磷脂依赖性激酶途径

VEGF活化PLC γ 水解膜组分PIP2产生IP3和DAG。IP3诱导细胞内Ca²⁺释放，促进前列腺素的生成，提高血管渗透性。Ca²⁺使PKC结合并聚合至质膜，在DAG（二酯甘油）的作用下活化，PKC也可作为eNOS和Raf1-MEK1/2-ERK1/2的上游激活物，促进NO的产生，促进基因的表达和细胞的增殖。



靶标	产品货号	产品名称	反应种属	应用
BAD	db11004	Bad Recombinant Rabbit mAb	Human, Mouse,Rat	WB, IHC,ICC/IF, FC, IP
	db915	Bad Rabbit pAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC,IP
	db12648	Phospho-Bad (Ser112) Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IP
	db21725	Phospho-Bad (Ser112) Rabbit pAb	Human, Mouse, Rat	WB,IP
CASP9	db23715	Caspase-9 Rabbit pAb	Human, Mouse	WB, IP
	db21959	Caspase-9 Rabbit pAb	Human	WB,IHC,FC
	db21445	Caspase-9 Rabbit pAb	Mouse, Rat	WB,IP
	db2119	Caspase-9 Rabbit pAb	Human, Mouse	WB,IHC,ICC/IF,IP
	db6217	Caspase-9 (1D1) Mouse mAb	Human	WB
	db12919	Caspase-9 Recombinant Rabbit mAb	Mouse, Rat	WB,IP
	db14222	Caspase-9 Recombinant Rabbit mAb	Human, Mouse	WB,IHC,ICC/IF,IP
	db12902	Caspase-9 Recombinant Rabbit mAb	Human	WB,IHC,FC
	db11292	Caspase-9 Recombinant Rabbit mAb	Human, Mouse	WB, IP
	db16098	Caspase-9 Recombinant Rabbit mAb	Human	WB, IHC, ICC/IF, FC,IP
CDC42	db4231	CDC42 Rabbit pAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC,IP
	db14118	CDC42 Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC,IP
	db22154	Phospho-RAC1/Cdc42 (Ser71) Rabbit pAb	Human	WB
	db12632	Phospho-RAC1/Cdc42 (Ser71) Recombinant Rabbit mAb	Human	WB
COX2	db9805	COX2 Rabbit pAb	Human, Mouse	WB,IHC
	db8534	COX2 Rabbit pAb	Mouse	WB,ICC/IF,FC,IP
	db3633	COX2 Rabbit pAb	Human, Mouse	WB,IHC,IP
	db13375	COX2 Recombinant Rabbit mAb	Human, Mouse	WB,IHC
	db14667	COX2 Recombinant Rabbit mAb	Mouse	WB,ICC/IF,FC,IP
	db15241	COX2 Recombinant Rabbit mAb	Human, Rat, Mouse	WB,IHC,ICC/IF,IP
	db2995	COX2/Cyclooxygenase 2 Rabbit pAb	Human, Mouse	WB,ICC/IF,FC
	db15427	COX2/Cyclooxygenase 2 Recombinant Rabbit mAb	Human, Mouse	WB,ICC/IF,FC

靶标	产品货号	产品名称	反应种属	应用
ERK	db4966	ERK1 Rabbit pAb	Human, Mouse	WB,IHC,ICC/IF,FC,IP
	db6568	ERK1 (8G6) Mouse mAb	Human, Rat, Mouse	IHC-P
	db6567	ERK1 (7E7) Mouse mAb	Human, Rat, Mouse	IHC-P
	db6569	ERK1 (1D10) Mouse mAb	Human, Rat, Mouse	IHC-P
	db14725	ERK1 Recombinant Rabbit mAb	Human, Mouse	WB,IHC,ICC/IF,FC,IP
FAK	db4203	FAK Rabbit pAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC,IP
	db20970	FAK Rabbit pAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC
	db6186	FAK (3D8) Mouse mAb	Human	WB,ICC/IF,IP
	db11806	FAK Recombinant Rabbit mAb	Human, Mouse, Rat	WB, IHC, ICC/IF, FC,IP
	db14504	FAK Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC
	db7783	Phospho-FAK (Tyr925) Rabbit pAb	Human	WB
	db2584	Phospho-FAK (Tyr397) Rabbit pAb	Human, Mouse, Rat	WB,ICC/IF
	db22202	Phospho-FAK (Tyr576) Rabbit pAb	Human, Mouse, Rat	WB,FC
	db21022	Phospho-FAK (Tyr576/Tyr577) Rabbit pAb	Human, Mouse	WB,ICC/IF,FC,IP
	db12142	Phospho-FAK (Tyr397) Recombinant Rabbit mAb	Human, Mouse, Rat	WB, ICC/IF
	db12317	Phospho-FAK (Tyr925) Recombinant Rabbit mAb	Human	WB
	db13741	Phospho-FAK (Tyr576) Recombinant Rabbit mAb	Human, Mouse, Rat	WB,FC
	db12675	Phospho-FAK (Tyr576/Tyr577) Recombinant Rabbit mAb	Human, Mouse	WB,ICC/IF,FC,IP
MEK1	db20562	MEK1 Rabbit pAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC,IP
	db1784	MEK1 Rabbit pAb	Human	WB,IHC,ICC/IF,IP
	db626	MEK1 Rabbit pAb	Human	WB,ICC/IF,FC,IP
	db13663	MEK1 Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC
	db13983	MEK1 Recombinant Rabbit mAb	Human	WB,IHC,ICC/IF,IP
	db15920	MEK1 Recombinant Rabbit mAb	Human	WB,ICC/IF,FC,IP
	db2079	Phospho-MEK1 (Ser298) Rabbit pAb	Human, Mouse, Rat	WB,IHC,ICC/IF
	db1747	Phospho-MEK1 (Thr292) Rabbit pAb	Human	WB
	db251	Phospho-MEK1 (Thr286) Rabbit pAb	Human	WB,IP
	db11129	Phospho-MEK1 (Thr292) Recombinant Rabbit mAb	Human	WB
	db14123	Phospho-MEK1 (Thr286) Recombinant Rabbit mAb	Human	WB,IP
	db11915	Phospho-MEK1 (Ser298) Recombinant Rabbit mAb	Human, Mouse, Rat	WB, IHC, ICC/IF
p38	db387	p38 Rabbit pAb	Human, Mouse,Rat	WB,ICC/IF,FC,IP
	db20336	p38 Rabbit pAb	Human, Mouse, Rat	WB,ICC/IF,FC,IP
	db3666	p38 Rabbit pAb	Human, Mouse, Rat	WB,IHC,ICC/IF
	db6586	p38 (6F5) Mouse mAb	Human, Rat, Mouse	IHC-P
	db6168	p38 (5A1) Mouse mAb	Human,Mouse, Rat, Monkey	WB
	db14381	p38 Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IHC,ICC/IF
	db13080	p38 Recombinant Rabbit mAb	Human, Mouse, Rat	WB,ICC/IF,FC,IP
	db15981	p38 Recombinant Rabbit mAb	Human, Mouse, Rat	WB,ICC/IF,FC,IP
	db5672	Phospho-p38 (Thr180) Rabbit pAb	Human	WB,FC
	db18	Phospho-p38 (Thr180/Tyr182) Rabbit pAb	Human, Mouse	WB
	db14139	Phospho-p38 (Thr180) Recombinant Rabbit mAb	Human	WB,FC
	db12597	Phospho-p38 (Thr180/Tyr182) Recombinant Rabbit mAb	Human, Mouse	WB

靶标	产品货号	产品名称	反应种属	应用
Paxillin	db20547	Paxillin Rabbit pAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC,IP
	db1638	Paxillin Rabbit pAb	Human, Mouse, Rat	WB,IHC,ICC/IF,IP
	db14728	Paxillin Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IHC,ICC/IF,IP
	db12478	Paxillin Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC,IP
	db3855	Phospho-Paxillin (Tyr118) Rabbit pAb	Human, Mouse, Rat	WB
	db13963	Phospho-Paxillin (Tyr118) Recombinant Rabbit mAb	Human, Mouse, Rat	WB
PI3K	db8287	PI3K-gamma Rabbit pAb	Human	WB,FC,IP
	db14641	PI3K-gamma Recombinant Rabbit mAb	Human	WB,FC,IP
RAF1	db4640	Raf1 Rabbit pAb	Human	WB,IHC,ICC/IF
	db12651	Raf1 Recombinant Rabbit mAb	Human	WB,IHC,ICC/IF
	db24819	Phospho-RAF1 (Ser43) Rabbit pAb	Human, Mouse, Rat	WB
	db2779	Phospho-Raf1 (Ser259) Rabbit pAb	Human, Mouse, Rat	WB,IHC
	db11413	Phospho-RAF1 (Ser43) Recombinant Rabbit mAb	Human, Mouse, Rat	WB
	db12158	Phospho-Raf1 (Ser259) Recombinant Rabbit mAb	Human, Mouse, Rat	WB, IHC
SRC	db4576	Src Rabbit pAb	Human, Mouse, Rat	WB
	db7312	Src Rabbit pAb	Human, Mouse, Rat	WB,IHC
	db15017	Src Recombinant Rabbit mAb	Human, Mouse, Rat	WB
	db14294	Src Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IHC
	db957	Phospho-Src (Tyr419) Rabbit pAb	Human, Mouse, Rat	WB,FC
	db20533	Phospho-Src (Tyr530) Rabbit pAb	Human, Mouse, Rat	WB,ICC/IF,IP
	db14390	Phospho-Src (Tyr530) Recombinant Rabbit mAb	Human, Mouse, Rat	WB,ICC/IF,IP
	db11012	Phospho-Src (Tyr419) Recombinant Rabbit mAb	Human, Mouse, Rat	WB, FC
VEGF	db9395	VEGF Receptor 1 Rabbit pAb	Human, Mouse, Rat	WB,IHC,IP
	db1738	VEGF Receptor 2 Rabbit pAb	Human	WB,IP
	db4606	VEGF Receptor 2 Rabbit pAb	Mouse, Rat	WB
	db8930	VEGF Receptor 2 Rabbit pAb	Mouse	ICC/IF,FC
	db5798	VEGF Receptor 3 Rabbit pAb	Human	FC
	db5907	VEGF Receptor 3 Rabbit pAb	Human	WB
	db30174	VEGF Recombinant Rabbit mAb	Human	IHC,WB
	db11269	VEGF Receptor 1 Recombinant Rabbit mAb	Human, Mouse, Rat	WB, IHC, IP
	db12825	VEGF Receptor 2 Recombinant Rabbit mAb	Mouse	ICC/IF,FC
	db15008	VEGF Receptor 2 Recombinant Rabbit mAb	Mouse, Rat	WB
	db12538	VEGF Receptor 2 Recombinant Rabbit mAb	Human	WB,IP
	db14748	VEGF Receptor 3 Recombinant Rabbit mAb	Human	WB
	db12909	VEGF Receptor 3 Recombinant Rabbit mAb	Human	FC

TGF- β 信号通路

转化生长因子- β (TGF- β) 信号通路在成熟有机体和发育中的胚胎中都参与了许多细胞过程, 这些过程包括细胞生长, 细胞分化、细胞凋亡、细胞动态平衡等其他细胞功能。尽管TGF- β 调控许多细胞过程, 这些过程相对来说都比较简单。TGF- β 类配体与II型受体结合, II型受体招募并磷酸化I型受体, I型受体再磷酸化受体调控的SMAD蛋白 (R-SMAD), 这些蛋白再与coSMAD结合。R-SMAD/coSMAD复合体作为转录因子在细胞核内聚集, 参与目标基因表达的调控。

1. Smad信号转导

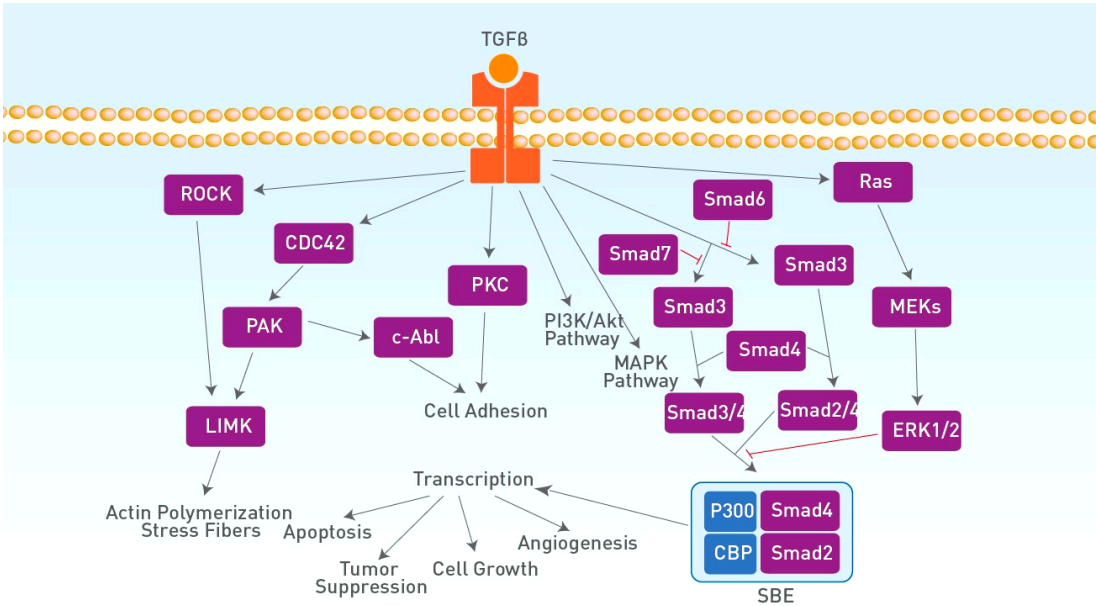
Smad蛋白是TGF- β 家族受体下游的信号转导分子。在哺乳动物中有八个Smad, Smad1~Smad8。根据在TGF- β 信号转导中的功能差异, 他们被分为三类: (1) 受体调控的Smad (receptor-regulated Smad, R-Smad1/2/3/5/8): 和其它与许多激酶-底物反应一样, TGF- β I型受体对R-Smad的磷酸化需要它们的直接结合。R-Smad C末端SXS基序 (X指代M或V) 中的丝氨酸能直接被TGF- β I型受体磷酸化而导致R-Smad活化, 其中Smad2/3被TGF- β /activin/nodal亚家族的I型受体ALK4/5/7磷酸化, 而Smad1/5/8则主要被BMP/GDF/AMH亚家族的ALK2/3/6和ALK1磷酸化。(2) 通用Smad (common Smad, Co-Smad-Smad4): 磷酸化的R-Smad与Co-Smad/Smad4聚合并继续传递信号。R-Smad与Smad4的聚合主要以异源三聚体的形式存在, 并以二聚体的形式发挥作用, 这可能与基因启动子区的结构有关。最终导致R-Smad-Smad4复合物在细胞核内的积累并调控靶基因转录。(3) 抑制型Smad (inhibitory Smad, I-Smad-Smad6/7): 抑制型Smad主要起抑制信号转导的作用。I-Smad (包括Smad6和Smad7) 是TGF- β 信号的关键负调控因子; 它们本身是TGF- β /BMP的靶基因, 因此形成负反馈的调控模式。Smad7是TGF- β 家族的广谱抑制蛋白, 而Smad6更特异性的抑制BMP信号, 尤其是ALK3/6介导的信号。

2. 非Smad信号转导通路

很早以前科学家们就发现TGF- β /BMP细胞因子能在多种细胞中激活一些非Smad信号分子。比如TGF- β 活化的TGF- β RI通过磷酸化ShcA而诱导形成ShcA/Grb2/Sos复合物, 并进一步通过Ras-Raf-MEK通路激活ERK MAPK; TGF- β 受体诱导TRAF6催化TAK1发生K63连接的多聚泛素化修饰, 然后通过MKK激活JNK和p38 MAPK; BMP也能通过TAK1/TAB激活MAPK通路。TGF- β 还能诱导其受体与PI3K的调节亚基p85结合, 激活PI3K及其下游的Akt或者PAK2激酶; 非受体酪氨酸激酶FAK能与p85结合并控制Akt/PAK2的活化。此外, TGF- β 能调控RhoA、LIMK1/2、PP2A、eEF1A1等信号分子活性。TGF- β 诱导的非Smad通路通常依赖于不同的生理/环境条件和细胞类型, 并与Smad通路一起介导TGF- β 诱导的生物学反应, 比如上皮细胞-间充质细胞转化 (epithelial-mesenchymal transition, EMT)、肿瘤细胞的迁移与侵袭、成纤维细胞的增殖与形态改变, 以及组织纤维化等。

3.TGF-β 诱导的非Smad通路

TGF-β 诱导的非Smad通路能够对Smad信号进行调控。ERK、JNK和p38 MAPK能够磷酸化R-Smad和Smad4，尤其是它们的linker区。这种磷酸化既可能促进，也可能抑制Smad的活性，这依赖于细胞类型以及细胞所处的生理环境。Akt直接结合Smad3并抑制它被受体的磷酸化、入核转运和转录活性。



靶标	产品货号	产品名称	反应种属	应用
AKT1	db1672	AKT1 Rabbit pAb	Human, Mouse	WB,IHC,ICC/IF,FC,IP
	db15719	AKT1 Recombinant Rabbit mAb	Human, Mouse	WB,IHC,ICC/IF,FC,IP
	db3626	Phospho-AKT1 (Ser473) Rabbit pAb	Human, Mouse, Rat	WB, IHC, ICC/IF
	db20221	Phospho-AKT1 (Ser124) Rabbit pAb	Human, Mouse, Rat	WB,IP
	db20482	Phospho-AKT1 (Thr450) Rabbit pAb	Human, Mouse, Rat	WB,IHC,IP
	db8405	Phospho-AKT1 (Ser129) Rabbit pAb	Human, Mouse, Rat	WB
	db1727	Phospho-AKT1 (Ser473) Rabbit pAb	Human, Mouse, Rat	WB,IHC,ICC/IF
	db11063	Phospho-AKT1 (Thr450) Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IHC,IP
	db14851	Phospho-AKT1 (Ser473) Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IHC,ICC/IF
	db13907	Phospho-AKT1 (Ser129) Recombinant Rabbit mAb	Human, Mouse, Rat	WB
	db12718	Phospho-AKT1 (Ser124) Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IP
	db11197	Phospho-AKT1 (Ser473) Recombinant Rabbit mAb	Human, Mouse, Rat	WB, IHC, ICC/IF

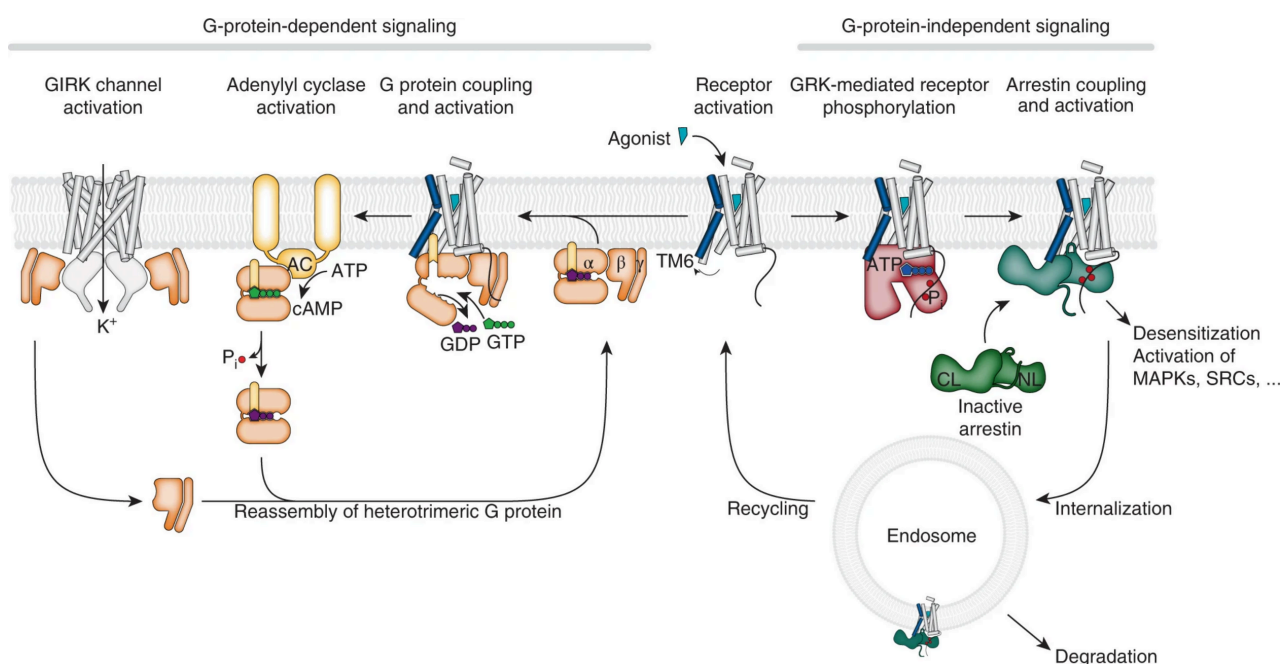
靶标	产品货号	产品名称	反应种属	应用
ERK1/2	db758	ERK1/2 Rabbit pAb	Human,Mouse,Rat	WB,ICC/IF,FC,IP
	db6570	ERK1/2 (1B4) Mouse mAb	Human,Mouse,Rat	WB,IHC-P
	db6122	ERK1/2 (4A4) Mouse mAb	Human,Mouse,Rat	WB
	db6298	ERK1/2 (4F3) Mouse mAb	Human,Mouse,Rat	WB
	db6621	ERK1/2 (9A4) Mouse mAb	Human,Mouse,Rat	WB,IHC-P
	db11649	ERK1/2 Recombinant Rabbit mAb	Human,Mouse,Rat	WB,ICC/IF,FC,IP
	db269	Phospho-ERK1/2 (Thr202/Thr185) Rabbit pAb	Human,Mouse,Rat	WB,IHC,ICC/IF,IP
	db1066	Phospho-ERK1/2 (Thr202/Thr185) Rabbit pAb	Human,Mouse,Rat	WB,IHC,ICC/IF,IP
	db6548	Phospho-ERK1/2 (Tyr222/Tyr205) (1H4) Mouse mAb	Human,Mouse,Rat	IHC-P
	db6576	Phospho-ERK1/2 (Tyr222/Tyr205) (10C8) Mouse mAb	Human,Mouse,Rat	IHC-P
	db14364	Phospho-ERK1/2(Thr202/Thr185) Recombinant Rabbit mAb	Human,Mouse,Rat	WB,IHC,ICC/IF,IP
	db13437	Phospho-ERK1/2 (Thr202/Thr185) Recombinant Rabbit mAb	Human,Mouse,Rat	WB,IHC,ICC/IF,IP
FGF1	db8467	FGF1 Rabbit pAb	Human, Mouse, Rat	WB
	db1519	FGF1 Rabbit pAb	Human, Rat	WB,IHC
	db14936	FGF1 Recombinant Rabbit mAb	Human, Mouse, Rat	WB
	db15749	FGF1 Recombinant Rabbit mAb	Human, Rat	WB,IHC
JNK	db8572	JNK1 Rabbit pAb	Human, Mouse, Rat	WB
	db58	JNK1 Rabbit pAb	Human, Mouse, Rat	WB
	db6223	JNK1 (1A4) Mouse mAb	Human, Mouse, Rat	WB,ICC/IF
	db13511	JNK1 Recombinant Rabbit mAb	Human, Mouse, Rat	WB
	db12544	JNK1 Recombinant Rabbit mAb	Human, Mouse, Rat	WB
	db20141	Phospho-JNK1 (Thr183/Tyr185) Rabbit pAb	Human	WB,IP
	db11220	Phospho-JNK1 (Thr183/Tyr185) Recombinant Rabbit mAb	Human	WB,IP
ATF2	db7901	ATF2 Rabbit pAb	Human	WB,IHC,ICC/IF,IP
	db9930	ATF2 Rabbit pAb	Human,Mouse,Rat	WB,IHC,FC,IP
	db13059	ATF2 Recombinant Rabbit mAb	Human,Mouse,Rat	WB,IHC,FC,IP
	db12625	ATF2 Recombinant Rabbit mAb	Human	WB,IHC,ICC/IF,IP
	db2397	Phospho-ATF2 (Thr71) Rabbit pAb	Human,Mouse	WB,ICC/IF,IP
	db11934	Phospho-ATF2 (Thr71) Recombinant Rabbit mAb	Human,Mouse	WB, ICC/IF, IP

靶标	产品货号	产品名称	反应种属	应用
TGF-beta 1	db4124	TGF beta 1 Rabbit pAb	Human, Mouse, Rat	WB,IHC
	db1315	TGF beta 1 Rabbit pAb	Human, Mouse, Rat	WB
	db6572	TGF beta 1 (8F6) Mouse mAb	Human, Rat, Mouse	WB,IHC-P
	db6543	TGF beta 1 (4C1) Mouse mAb	Human, Rat, Mouse	IHC-P
	db6541	TGF beta 1 (7C9) Mouse mAb	Mouse, Rat	IHC-P
	db13117	TGF beta 1 Recombinant Rabbit mAb	Human, Mouse, Rat	WB
	db15107	TGF beta 1 Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IHC
RHOA	db76	RhoA Rabbit pAb	Human, Mouse, Rat	WB,ICC/IF,FC
	db16061	RhoA Recombinant Rabbit mAb	Human, Mouse, Rat	WB,ICC/IF,FC
MAP2K6	db6294	MAP2K6 (8A11) Mouse mAb	Human,Rat	WB,IP
PP2A	db3342	PP2A alpha/beta Rabbit pAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC,IP
	db1977	PP2A alpha/beta Rabbit pAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC,IP
	db13474	PP2A alpha/beta Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC,IP
	db12340	PP2A alpha/beta Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC,IP
RAF1	db4640	Raf1 Rabbit pAb	Human	WB,IHC,ICC/IF
	db12651	Raf1 Recombinant Rabbit mAb	Human	WB,IHC,ICC/IF
	db24819	Phospho-RAF1 (Ser43) Rabbit pAb	Human, Mouse, Rat	WB
	db2779	Phospho-Raf1 (Ser259) Rabbit pAb	Human, Mouse, Rat	WB,IHC
	db11413	Phospho-RAF1 (Ser43) Recombinant Rabbit mAb	Human, Mouse, Rat	WB
	db12158	Phospho-Raf1 (Ser259) Recombinant Rabbit mAb	Human, Mouse, Rat	WB, IHC
XIAP	db5527	XIAP Rabbit pAb	Human, Mouse, Rat	WB
	db11787	XIAP Recombinant Rabbit mAb	Human, Mouse, Rat	WB
p38 MAPK	db387	p38 Rabbit pAb	Human, Mouse, Rat	WB,ICC/IF,FC,IP
	db20336	p38 Rabbit pAb	Human, Mouse, Rat	WB,ICC/IF,FC,IP
	db3666	p38 Rabbit pAb	Human, Mouse, Rat	WB,IHC,ICC/IF
	db6586	p38 (6F5) Mouse mAb	Human, Rat, Mouse	IHC-P
	db6168	p38 (5A1) Mouse mAb	Human,Mouse,Rat,Mo nkey	WB
	db14381	p38 Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IHC,ICC/IF
	db13080	p38 Recombinant Rabbit mAb	Human, Mouse, Rat	WB,ICC/IF,FC,IP
	db15981	p38 Recombinant Rabbit mAb	Human, Mouse, Rat	WB,ICC/IF,FC,IP
	db5672	Phospho-p38 (Thr180) Rabbit pAb	Human	WB,FC
	db18	Phospho-p38 (Thr180/Tyr182) Rabbit pAb	Human, Mouse	WB
	db14139	Phospho-p38 (Thr180) Recombinant Rabbit mAb	Human	WB,FC
	db12597	Phospho-p38 (Thr180/Tyr182) Recombinant Rabbit mAb	Human, Mouse	WB

靶标	产品货号	产品名称	反应种属	应用
SMAD1	db967	Smad1 Rabbit pAb	Human	WB,IHC,ICC/IF,FC
	db15828	Smad1 Recombinant Rabbit mAb	Human	WB,IHC,ICC/IF,FC
	db20386	Phospho-Smad1 (Ser463/Ser465) Rabbit pAb	Human, Mouse	WB,IP
	db4962	Phospho-Smad1 (Ser463/Ser465) Rabbit pAb	Human, Mouse	WB,ICC/IF,IP
	db14871	Phospho-Smad1 (Ser463/Ser465) Recombinant Rabbit mAb	Human, Mouse	WB,IP
	db13936	Phospho-Smad1 (Ser463/Ser465) Recombinant Rabbit mAb	Human, Mouse	WB,ICC/IF,IP
SMAD2	db3650	Smad2 Rabbit pAb	Human, Rat	WB,IHC,ICC/IF,FC,IP
	db2071	Smad2 Rabbit pAb	Human, Mouse, Rat	WB,ICC/IF,FC
	db6171	Smad2 (6H5) Mouse mAb	Human, Mouse	WB,ICC/IF
	db15633	Smad2 Recombinant Rabbit mAb	Human, Mouse, Rat	WB,ICC/IF,FC
	db11807	Smad2 Recombinant Rabbit mAb	Human, Rat	WB,IHC,ICC/IF,FC,IP
	db20289	Phospho-Smad2 (Ser250) Rabbit pAb	Human, Mouse, Rat	WB,FC
	db2401	Phospho-Smad2 (Ser255) Rabbit pAb	Human, Mouse, Rat	WB,IHC,IP
	db24826	Phospho-Smad2 (Thr8)/Smad3 (Thr8) Rabbit pAb	Human, Mouse, Rat	WB,ICC/IF,IP
	db11942	Phospho-Smad2 (Ser255) Recombinant Rabbit mAb	Human, Mouse, Rat	WB, IHC, IP
	db11432	Phospho-Smad2 (Ser250) Recombinant Rabbit mAb	Human, Mouse, Rat	WB, FC
SMAD3	db8795	Smad3 Rabbit pAb	Human, Mouse, Rat	WB,IP
	db1007	Smad3 Rabbit pAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC
	db6613	Smad3 (4H4) Mouse mAb	Human, Rat, Mouse	WB,IHC-P
	db11519	Smad3 Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC
	db13313	Smad3 Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IP
	db6578	Phospho-Smad3 (Ser425) (7H6) Mouse mAb	Human, Rat, Mouse	IHC-P
	db1169	Phospho-Smad3 (Ser423/Ser425) Rabbit pAb	Human, Mouse	WB,IHC,ICC/IF
	db13792	Phospho-Smad3 (Ser423/Ser425) Recombinant Rabbit mAb	Human, Mouse	WB,IHC,ICC/IF
SMAD4	db5616	Smad4 Rabbit pAb	Human, Mouse, Rat	WB, IHC
	db8761	Smad4 Rabbit pAb	Human, Mouse, Rat	WB,ICC/IF,FC,IP
	db14376	Smad4 Recombinant Rabbit mAb	Human, Mouse, Rat	WB,ICC/IF,FC,IP
	db30179	SMAD4 Recombinant Rabbit mAb	Human	IHC
	db12494	Smad4 Recombinant Rabbit mAb	Human, Mouse, Rat	WB, IHC
SMAD5	db8393	Smad5 Rabbit pAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC
	db6059	Smad5 (4B10) Mouse mAb	Human	WB,ICC/IF,FC
	db11228	Smad5 Recombinant Rabbit mAb	Human, Mouse, Rat	WB, IHC, ICC/IF, FC
	db20992	Phospho-Smad5 (Ser463/Ser465) Rabbit pAb	Human	WB,ICC/IF
	db599	Phospho-Smad5 (Ser463/Ser465) Rabbit pAb	Human, Mouse, Rat	WB,IHC
	db14109	Phospho-SMAD5 (Ser463/Ser465) Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IHC
	db12682	Phospho-SMAD5 (Ser463/Ser465) Recombinant Rabbit mAb	Human	WB,ICC/IF

GPCR信号通路

GPCR（G蛋白偶联受体）是真核生物中最大、种类最多的膜受体。G蛋白是能够结合三磷酸鸟苷（GTP）和二磷酸鸟苷（GDP）的特殊蛋白质。与GPCR相关的G蛋白是异源三聚体，这意味着它们具有三个不同的亚基： α 亚基， β 亚基和 γ 亚基。这些亚基中的两个 α 和 γ 通过脂质锚定物附着在质膜上。配体与GPCR的结合会引起受体构象的改变，进而改变并结合并激活G蛋白。然后G蛋白的活性形式从受体表面释放出来，解离成其 α 和 β/γ 亚基。然后，两个亚基都将激活其特定的效应子，从而释放第二个信使。这些信使被蛋白激酶识别，从而导致其活化并触发朝向细胞事件的信号级联。受体结合到各种异源三聚体的G蛋白亚型后可利用不同的支架来激活小分子G蛋白/MAPK级联，并可利用至少三种不同类型的酪氨酸激酶。Src家族激酶在 β/γ 亚单位激活PI3K γ 后聚集。Src家族激酶还可由受体内化、受体酪氨酸激酶交互激活，或含Pyk2或FAK的整合素支架信号转导来聚集。GPCR还可以利用PLC β 来介导PKC和CaMKII的激活，这样就能达到激活或抑制下游MAPK通路的效果。



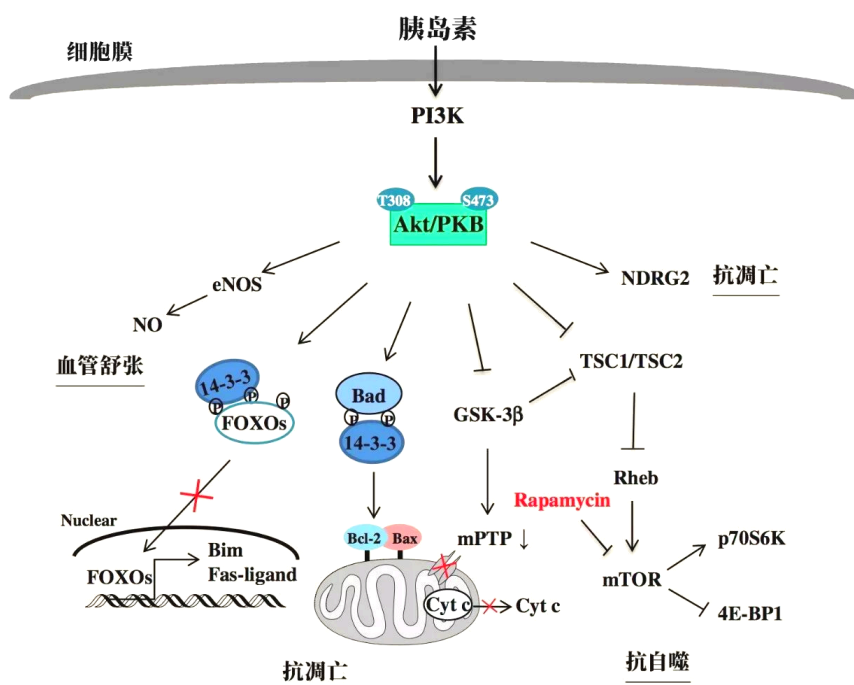
靶标	产品货号	产品名称	反应种属	应用
CD97	db13169	CD97 Recombinant Rabbit mAb	Human	WB,IHC,ICC/IF,FC,IP
	db22276	CD97 Rabbit pAb	Human	WB,IHC,ICC/IF,FC,IP
CDC42	db12632	Phospho-RAC1/Cdc42 (Ser71) Recombinant Rabbit mAb	Human	WB
	db22154	Phospho-RAC1/Cdc42 (Ser71) Rabbit pAb	Human	WB
	db14118	CDC42 Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC,IP
	db4231	CDC42 Rabbit pAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC,IP
c-fos	db6207	c-Fos (7D6) Mouse mAb	Human, Rat, Monkey	WB
	db4871	c-Fos Rabbit pAb	Human, Mouse	WB,IHC,ICC/IF,FC,IP
	db4635	c-Fos Rabbit pAb	Human, Mouse	WB,IHC,ICC/IF,IP
	db2018	c-Fos Rabbit pAb	Human, Mouse, Rat	WB,FC
	db15652	c-Fos Recombinant Rabbit mAb	Human, Mouse, Rat	WB,FC
	db14998	c-Fos Recombinant Rabbit mAb	Human, Mouse	WB,IHC,ICC/IF,IP
	db14952	c-Fos Recombinant Rabbit mAb	Human, Mouse	WB,IHC,ICC/IF,FC,IP
CREB	db11133	Phospho-CREB (Ser133) Recombinant Rabbit mAb	Human, Mouse, Rat	WB, IHC, ICC/IF, FC, IP
	db6332	CREB (1E9) Mouse mAb	Human, Rat	WB
	db1783	Phospho-CREB (Ser133) Rabbit pAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC,IP
	db13965	CREB Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IHC
	db2906	CREB Rabbit pAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC,IP
EPAC 1	db2006	Epac1 Rabbit pAb	Human, Mouse, Rat	WB,IHC,ICC/IF,IP
	db11196	Epac1 Recombinant Rabbit mAb	Human, Mouse, Rat	WB, IHC
Frizzled 8	db21902	Frizzled 9 Rabbit pAb	Human, Mouse, Rat	WB
	db5117	Frizzled 8 Rabbit pAb	Human, Mouse, Rat	WB
	db14884	Frizzled 8 Recombinant Rabbit mAb	Human, Mouse, Rat	WB
	db13276	Frizzled 9 Recombinant Rabbit mAb	Human, Mouse, Rat	WB
JNK	db8572	JNK1 Rabbit pAb	Human, Mouse, Rat	WB
	db58	JNK1 Rabbit pAb	Human, Mouse, Rat	WB
	db6223	JNK1 (1A4) Mouse mAb	Human, Mouse, Rat	WB,ICC/IF
	db13511	JNK1 Recombinant Rabbit mAb	Human, Mouse, Rat	WB
	db12544	JNK1 Recombinant Rabbit mAb	Human, Mouse, Rat	WB
	db20141	Phospho-JNK1 (Thr183/Tyr185) Rabbit pAb	Human	WB,IP
	db11220	Phospho-JNK1 (Thr183/Tyr185) Recombinant Rabbit mAb	Human	WB,IP

靶标	产品货号	产品名称	反应种属	应用
NFKB	db3141	NF-kB p65 Rabbit pAb	Human, Mouse	WB,IHC,ICC/IF,FC,IP
	db8358	NF-kB p65 Rabbit pAb	Human	WB,ICC/IF,FC
	db6456	NF-kB p65 (3D2) Mouse mAb	Human, Mouse, Rat	WB,IHC-F,IHC-P,ICC/IF,IP
	db6428	NF-kB p65 (5A10) Mouse mAb	Human, Mouse, Rat	WB,IHC-P,IP
	db13524	NF-kB p65 Recombinant Rabbit mAb	Human	WB,ICC/IF,FC
	db11612	NF-KB p65 Recombinant Rabbit mAb	Human, Mouse	WB, IHC, ICC/IF, IP
	db7996	Phospho-NF-kB p65 (Ser536) Rabbit pAb	Human, Mouse, Rat	WB,IP
	db12441	Phospho-NF-kB p65 (Ser536) Recombinant Rabbit mAb	Human, Mouse, Rat	WB, IP
	db9294	NFkB p100 Rabbit pAb	Human, Mouse, Rat	WB,ICC/IF,IP
	db436	NFkB p100 Rabbit pAb	Human, Mouse, Rat	WB,ICC/IF,FC,IP
	db20292	NFkB p100 Rabbit pAb	Human, Mouse	WB,ICC/IF,IP
	db2823	NFkB p105/p50 Rabbit pAb	Human, Mouse, Rat	WB,IHC
	db6209	NFkB p105 (5E3) Mouse mAb	Human, Mouse, Rat	WB
	db12500	NFkB p100 Recombinant Rabbit mAb	Human, Mouse	WB,ICC/IF,IP
	db11265	NFkB p100 Recombinant Rabbit mAb	Human, Mouse, Rat	WB, ICC/IF, IP
	db15969	NFkB p100 Recombinant Rabbit mAb	Human, Mouse, Rat	WB,ICC/IF,FC,IP
	db12511	NFkB p105/p50 Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IHC
PAR2	db3066	PAR2 Rabbit pAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC
	db15398	PAR2 Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC
Paxillin	db20547	Paxillin Rabbit pAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC,IP
	db1638	Paxillin Rabbit pAb	Human, Mouse, Rat	WB,IHC,ICC/IF,IP
	db14728	Paxillin Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IHC,ICC/IF,IP
	db12478	Paxillin Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC,IP
	db13963	Phospho-Paxillin (Tyr118) Recombinant Rabbit mAb	Human, Mouse, Rat	WB
	db3855	Phospho-Paxillin (Tyr118) Rabbit pAb	Human, Mouse, Rat	WB
PKC	db8445	PKC beta 2 Rabbit pAb	Human, Rat	WB,IHC,ICC/IF,FC,IP
	db46	PKC beta 1 Rabbit pAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC
	db13454	PKC beta 2 Recombinant Rabbit mAb	Human, Rat	WB,IHC,ICC/IF,FC,IP
	db16067	PKC beta 1 Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC
PYK2	db6398	PYK2 (4B4) Mouse mAb	Human	WB,IHC-P
	db22335	PYK2 Rabbit pAb	Human, Rat	WB,IHC,IP
	db295	PYK2 Rabbit pAb	Human, Mouse, Rat	WB,IHC,ICC/IF
	db12378	PYK2 Recombinant Rabbit mAb	Human, Rat	WB,IHC,IP
	db16002	PYK2 Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IHC,ICC/IF
RHOA	db76	RhoA Rabbit pAb	Human, Mouse, Rat	WB,ICC/IF,FC
	db16061	RhoA Recombinant Rabbit mAb	Human, Mouse, Rat	WB,ICC/IF,FC
ROCK1	db1651	ROCK1 Rabbit pAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC,IP
	db4228	ROCK1 Rabbit pAb	Human, Mouse, Rat	WB,IHC,ICC/IF,IP
	db13063	ROCK1 Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IHC,ICC/IF,IP
	db11120	ROCK1 Recombinant Rabbit mAb	Human, Mouse, Rat	WB, IHC, ICC/IF, FC, IP

INSULIN信号通路

胰岛素信号通路对肝脏葡萄糖和脂质代谢的调控至关重要，胰岛素信号通路是指从胰岛素结合到细胞膜上的胰岛素受体，继而激活下游蛋白的磷酸化级联反应，最终产生各种生理效应的一系列过程。在肝脏糖脂代谢方面，胰岛素信号通路的激活一方面刺激肝脏糖酵解和脂肪酸合成，另一方面抑制糖异生和脂肪酸氧化。其中任一环节受损或失调时，就可能扰乱机体的代谢稳态平衡。

胰岛素是控制关键的能量代谢功能如葡萄糖和脂代谢过程中的主要激素。胰岛素激活胰岛素受体酪氨酸激酶，后者磷酸化并召集不同的底物接头蛋白如IRS家族蛋白。IRS上酪氨酸被磷酸化后成为众多信号传导关联蛋白的结合位点。其中，PI3K在胰岛素功能中起主要的作用，大部分是通过活化Akt/PKB和PKC ζ 级联来完成的。活化的Akt通过抑制GSK-3诱导糖原的合成，通过mTOR和下游元件影响蛋白合成，通过抑制几个促凋亡分子(Bad, Forkhead家族转录因子, GSK-3)影响细胞生存。胰岛素促进肌肉和脂肪细胞对葡萄糖的吸收，这是因为它能促使还有GLUT4的囊泡转移到细胞膜上。GLUT4的移位需要PI3K/Akt通路的参与和IR介导的CAP的磷酸化和形成CAP:Cbl:CrkII复合体。胰岛素信号通路也会影响细胞生长和分裂，主要是通过Akt级联进行，也会有Ras/MAPK通路的参与。另外，胰岛素信号通路可以通过中断CREB/CBP/Torc2的结合抑制肝脏中的糖异生。胰岛素信号通路还可以通过激活SREBP-1C, USF1和LXR来促进脂肪酸的合成。从Akt/PKB, PKC ζ , p70 S6K和MAPK级联得到的负反馈信息会导致丝氨酸的磷酸化和IRS信号通路的失活。



靶标	产品货号	产品名称	反应种属	应用
4EBP1	db11599	4E BP1 Recombinant Rabbit mAb	Human,Mouse,Rat	WB,IHC,ICC/IF,FC,IP
AKT	db15719	AKT1 Recombinant Rabbit mAb	Human, Mouse	WB,IHC,ICC/IF,FC,IP
	db3626	Phospho-AKT1 (Ser473) Rabbit pAb	Human, Mouse, Rat	WB, IHC, ICC/IF
	db20221	Phospho-AKT1 (Ser124) Rabbit pAb	Human, Mouse, Rat	WB,IP
	db20482	Phospho-AKT1 (Thr450) Rabbit pAb	Human, Mouse, Rat	WB,IHC,IP
	db8405	Phospho-AKT1 (Ser129) Rabbit pAb	Human, Mouse, Rat	WB
	db1727	Phospho-AKT1 (Ser473) Rabbit pAb	Human, Mouse, Rat	WB,IHC,ICC/IF
	db14851	Phospho-AKT1 (Ser473) Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IHC,ICC/IF
	db11063	Phospho-AKT1 (Thr450) Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IHC,IP
	db13907	Phospho-AKT1 (Ser129) Recombinant Rabbit mAb	Human, Mouse, Rat	WB
	db12718	Phospho-AKT1 (Ser124) Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IP
	db11197	Phospho-AKT1 (Ser473) Recombinant Rabbit mAb	Human, Mouse, Rat	WB, IHC, ICC/IF
ATP citrate lyase	db3646	ATP citrate lyase Rabbit pAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC,IP
	db6060	ATP Citrate Lyase (3D9) Mouse mAb	Human, Mouse, Monkey	WB,ICC/IF,FC
	db11738	ATP Citrate lyase Recombinant Rabbit mAb	Human, Mouse, Rat	WB, IHC, ICC/IF, FC, IP
	db8509	Phospho-ATP citrate lyase (Thr447/Ser451) Rabbit pAb	Human, Mouse, Rat	WB,ICC/IF,IP
	db14234	Phospho-ATP citrate lyase (Thr447/Ser451) Recombinant Rabbit mAb	Human, Mouse, Rat	WB,ICC/IF,IP
BAD	db915	Bad Rabbit pAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC,IP
	db11004	Bad Recombinant Rabbit mAb	Human, Mouse, Rat	WB, IHC, ICC/IF, FC, IP
	db21725	Phospho-Bad (Ser112) Rabbit pAb	Human, Mouse, Rat	WB,IP
	db12648	Phospho-Bad (Ser112) Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IP
CRK	db6158	CRK (3H7) Mouse mAb	Human	WB
	db20993	Phospho-Crk p38 (Tyr221) Rabbit pAb	Human	WB,ICC/IF
	db12681	Phospho-Crk p38 (Tyr221) Recombinant Rabbit mAb	Human	WB,ICC/IF
EIF4B	db22375	eIF4B Rabbit pAb	Human	WB,IHC,ICC/IF,FC
	db13058	eIF4B Recombinant Rabbit mAb	Human	WB,IHC,ICC/IF,FC
	db21516	Phospho-eIF4B (Ser406) Rabbit pAb	Human, Mouse, Rat	WB,IHC
	db14066	Phospho-eIF4B (Ser406) Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IHC
Flotillin 1	db3547	Flotillin 1 Rabbit pAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC,IP
	db1730	Flotillin 1 Rabbit pAb	Human, Mouse	WB
	db6473	Flotillin 1 (6H9) Mouse mAb	Mouse, Rat	WB
	db14784	Flotillin 1 Recombinant Rabbit mAb	Human, Mouse	WB
	db11731	Flotillin 1 Recombinant Rabbit mAb	Human, Mouse, Rat	WB, IHC, ICC/IF, FC, IP
	db8678	Flotillin 2 Rabbit pAb	Human, Mouse, Rat	WB,IP
	db14444	Flotillin 2 Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IP
GAB2	db22287	GAB2 Rabbit pAb	Human, Mouse, Rat	WB,ICC/IF
	db20792	GAB2 Rabbit pAb	Human, Mouse, Rat	WB,ICC/IF,FC
	db13625	GAB2 Recombinant Rabbit mAb	Human, Mouse, Rat	WB,ICC/IF,FC
	db13166	GAB2 Recombinant Rabbit mAb	Human, Mouse, Rat	WB,ICC/IF
GRB2	db2356	GRB2 Rabbit pAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC
	db2344	GRB2 Rabbit pAb	Human, Mouse, Rat	WB,IHC,ICC/IF,IP
	db6102	GRB2 (5G3) Mouse mAb	Human, Mouse, Rat	WB
	db15571	GRB2 Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IHC,ICC/IF,IP
	db15565	GRB2 Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC

靶标	产品货号	产品名称	反应种属	应用
GSK3B	db6410	GSK3 beta Mouse mAb	Human, Mouse, Rat	WB,IHC-P,FC
	db2634	GSK3 beta Rabbit pAb	Human, Mouse	WB,IHC,ICC/IF,FC
	db6073	GSK3 beta (2E6) Mouse mAb	Human, Mouse, Rat	WB,ICC/IF,IP,FC
	db6551	GSK3 beta (4C4) Mouse mAb	Human, Rat, Mouse	WB,IHC-P
	db6550	GSK3 beta (9B1) Mouse mAb	Human, Rat, Mouse	WB,IHC-P
	db6549	GSK3 beta (9F9) Mouse mAb	Human, Rat, Mouse	WB,IHC-P
	db14808	GSK3 beta Recombinant Rabbit mAb	Human, Mouse	WB,IHC,ICC/IF,FC
	db1715	Phospho-GSK3 beta (Ser9) Rabbit pAb	Human	WB,IHC,ICC/IF
	db13257	Phospho-GSK3 beta (Ser9) Recombinant Rabbit mAb	Human	WB,IHC,ICC/IF
Insulin	db412	Insulin Rabbit pAb	Human, Mouse, Rat	WB,IHC,ICC/IF
	db20504	Insulin Rabbit pAb	Human	IHC
	db1813	Insulin Rabbit pAb	Human	WB,IHC
	db30132	Insulin Recombinant Mouse mAb	Human	IHC
	db13712	Insulin Recombinant Rabbit mAb	Human	IHC
	db15695	Insulin Recombinant Rabbit mAb	Human	WB,IHC
	db12456	Insulin Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IHC,ICC/IF
IRS1	db2497	IRS1 Rabbit pAb	Human	WB,IHC,ICC/IF,FC
	db15530	IRS1 Recombinant Rabbit mAb	Human	WB,IHC,ICC/IF,FC
	db2330	Phospho-IRS1 (Tyr632) Rabbit pAb	Human	WB
	db14020	Phospho-IRS1 (Tyr632) Recombinant Rabbit mAb	Human	WB
JNK	db8572	JNK1 Rabbit pAb	Human, Mouse, Rat	WB
	db58	JNK1 Rabbit pAb	Human, Mouse, Rat	WB
	db6223	JNK1 (1A4) Mouse mAb	Human, Mouse, Rat	WB,ICC/IF
	db13511	JNK1 Recombinant Rabbit mAb	Human, Mouse, Rat	WB
	db12544	JNK1 Recombinant Rabbit mAb	Human, Mouse, Rat	WB
	db20141	Phospho-JNK1 (Thr183/Tyr185) Rabbit pAb	Human	WB,IP
	db11220	Phospho-JNK1 (Thr183/Tyr185) Recombinant Rabbit mAb	Human	WB,IP
JNK2	db13968	JNK2 Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IHC,FC,IP
	db3780	JNK2 Rabbit pAb	Human, Mouse, Rat	WB,IHC,FC,IP
MTOR	db8578	mTOR Rabbit pAb	Human, Mouse, Rat	WB
	db2001	mTOR Rabbit pAb	Human, Mouse, Rat	WB,IHC,IP
	db15657	mTOR Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IHC,IP
	db14469	mTOR Recombinant Rabbit mAb	Human, Mouse, Rat	WB
	db7351	Phospho-mTOR (Ser2448) Rabbit pAb	Human, Mouse	WB,IHC
	db2436	Phospho-mTOR (Ser2481) Rabbit pAb	Human, Mouse, Rat	WB
	db11887	Phospho-mTOR (Ser2448) Recombinant Rabbit mAb	Human, Mouse	WB, IHC
	db14018	Phospho-mTOR (Ser2481) Recombinant Rabbit mAb	Human, Mouse, Rat	WB
p70 S6K	db3819	P70 S6 Kinase beta Rabbit pAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC
	db332	P70 S6 Kinase alpha Rabbit pAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC
	db14017	P70 S6 Kinase beta Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC
	db12587	P70 S6 Kinase alpha Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC
	db2418	Phospho-P70 S6 Kinase beta (Ser371) Rabbit pAb	Human, Mouse, Rat	WB
	db14307	Phospho-P70 S6 Kinase beta (Ser371) Recombinant Rabbit mAb	Human, Mouse, Rat	WB

靶标	产品货号	产品名称	反应种属	应用
PDK2	db841	PDK2 Rabbit pAb	Human, Mouse, Rat	WB,IHC,IP
	db14302	PDK2 Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IHC,IP
PI3K p110	db1678	PI3-Kinase p110 beta Rabbit pAb	Human	WB,FC,IP
	db3038	PI3-Kinase p110 beta Rabbit pAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC
	db2282	PI3-Kinase p110 delta Rabbit pAb	Human, Mouse, Rat	WB,ICC/IF
	db1652	PI3-Kinase p110 delta Rabbit pAb	Human	WB,ICC/IF,IP
	db11128	PI3-Kinase p110 beta Recombinant Rabbit mAb	Human	WB, FC, IP
	db15409	PI3-Kinase p110 beta Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC
	db15724	PI3-Kinase p110 delta Recombinant Rabbit mAb	Human	WB,ICC/IF,IP
	db15594	PI3-Kinase p110 delta Recombinant Rabbit mAb	Human, Mouse, Rat	WB,ICC/IF
PKC alpha	db2373	PKC alpha Rabbit pAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC,IP
	db13040	PKC alpha Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC,IP
	db23744	Phospho-PKC alpha (Thr497) Rabbit pAb	Human, Mouse, Rat	WB, IHC
	db1662	Phospho-PKC alpha (Thr638) Rabbit pAb	Human, Mouse, Rat	WB,IHC,ICC/IF,IP
	db20232	Phospho-PKC alpha (Ser657) Rabbit pAb	Human, Mouse, Rat	WB,IHC
	db11446	Phospho-PKC alpha (Ser657) Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IHC
	db11122	Phospho-PKC alpha (Thr638) Recombinant Rabbit mAb	Human, Mouse, Rat	WB, IHC, ICC/IF, IP
	db11402	Phospho-PKC alpha (Thr497) Recombinant Rabbit mAb	Human, Mouse, Rat	WB, IHC
PKC zeta	db4725	Phospho-PKC zeta (Thr560) Rabbit pAb	Human, Mouse, Rat	WB
	db13941	Phospho-PKC zeta (Thr560) Recombinant Rabbit mAb	Human, Mouse, Rat	WB
	db21023	Phospho-PKC zeta/lambda (Thr410/Thr412) Rabbit pAb	Human, Mouse, Rat	WB,IHC
	db13764	Phospho-PKC zeta/lambda (Thr410/Thr412) Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IHC
PPP1CB	db6655	PP1C alpha Mouse mAb	Human, Mouse, Rat, Monkey	WB,ICC/IF
	db6650	PP1C alpha Mouse mAb	Human	WB,IHC-F,IHC-P,ICC/IF
	db21921	PP1C alpha/beta Rabbit pAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC,IP
	db6069	PP1C alpha (1H1) Mouse mAb	Human	WB,ICC/IF
	db6027	PP1C alpha (1C11) Mouse mAb	Human	WB,IHC-F,IHC-P,ICC/IF
	db6068	PP1C gamma (2F2A3) Mouse mAb	Human	WB
	db12099	PP1C alpha/beta Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC,IP
PTEN	db3274	PTEN Rabbit pAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC
	db21985	PTEN Rabbit pAb	Human, Mouse, Rat	WB,IHC,FC,IP
	db8911	PTEN Rabbit pAb	Human, Mouse, Rat	WB
	db3424	PTEN Rabbit pAb	Human, Mouse, Rat	WB
	db986	PTEN Rabbit pAb	Human, Mouse, Rat	WB
	db6563	PTEN (7H2) Mouse mAb	Human	IHC-P
	db14281	PTEN Recombinant Rabbit mAb	Human, Mouse, Rat	WB
	db15824	PTEN Recombinant Rabbit mAb	Human, Mouse, Rat	WB
	db14380	PTEN Recombinant Rabbit mAb	Human, Mouse, Rat	WB
	db12505	PTEN Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC
	db13256	PTEN Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IHC,FC,IP
	db4130	Phospho-PTEN (Ser380) Rabbit pAb	Human, Mouse, Rat	WB,ICC/IF
	db13955	Phospho-PTEN (Ser380) Recombinant Rabbit mAb	Human, Mouse, Rat	WB,ICC/IF
Raptor	db1233	Raptor Rabbit pAb	Human, Mouse, Rat	WB,IHC
	db15779	Raptor Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IHC

靶标	产品货号	产品名称	反应种属	应用
SHP2	db20952	SHP2 Rabbit pAb	Mouse, Rat	WB, IP
	db445	SHP2 Rabbit pAb	Human	WB,IHC,ICC/IF,FC,IP
	db8194	SHP2 Rabbit pAb	Human, Mouse, Rat	WB,IP
	db11960	SHP2 Recombinant Rabbit mAb	Human	WB, IHC, ICC/IF, FC, IP
	db14530	SHP2 Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IP
	db11774	SHP2 Recombinant Rabbit mAb	Mouse, Rat	WB, IP
	db3351	Phospho-SHP2 (Tyr542) Rabbit pAb	Human, Mouse	WB,ICC/IF,IP
	db1232	Phospho-SHP2 (Tyr582) Rabbit pAb	Human	WB
	db14096	Phospho-SHP2 (Tyr582) Recombinant Rabbit mAb	Human	WB
	db13976	Phospho-SHP2 (Tyr542) Recombinant Rabbit mAb	Human, Mouse	WB,ICC/IF,IP

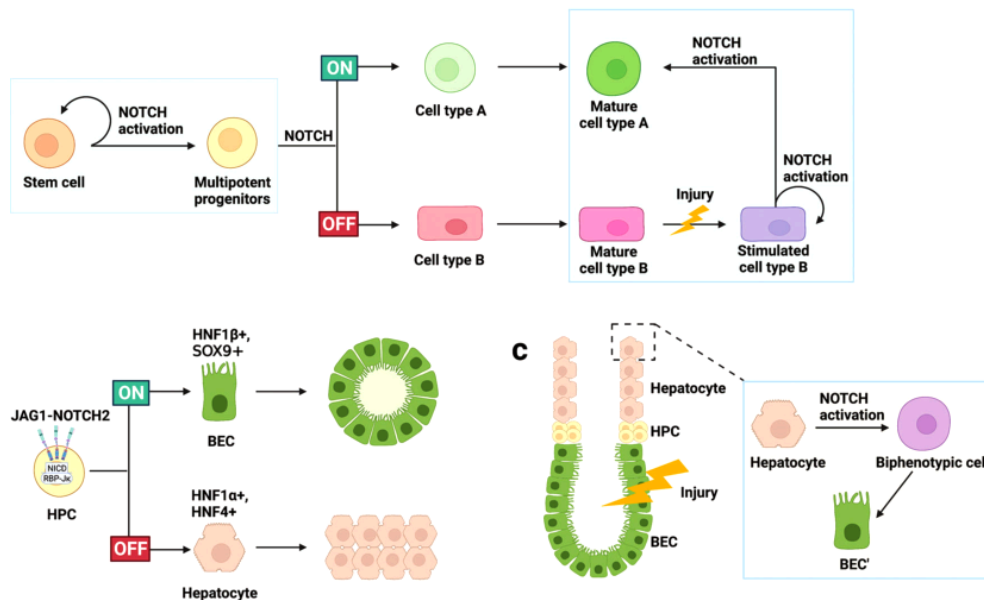
NOTCH信号通路

Notch基因编码一类高度保守的细胞表面受体，它们调节从海胆到人等多种生物细胞的发育。Notch信号影响细胞正常形态发生的多个过程，包括多能祖细胞的分化、细胞凋亡、细胞增殖及细胞边界的形成。Notch基因位点突变引起的表型改变，表明Notch信号作用的多样性。Notch信号通路广泛存在于脊椎动物和非脊椎动物，在进化上高度保守，通过相邻细胞之间的相互作用调节细胞、组织、器官的分化和发育。Notch信号通路由Notch受体、Notch配体(DSL蛋白)、CSL (CBF-1，Suppressor of hairless，Lag的合称)DNA结合蛋白、其他的效应物和Notch的调节分子等组成。

Notch信号通路活化有两条途径：

一、经典的Notch信号通路又称为CBF-1/RBP-Jk依赖途径(1) Notch信号传导在活化过程中经3次裂解：第1个裂解点(S1，胞外区1654位精氨酸残基-1655位替氨酸残基之间)于Notch成熟过程中在高尔基内furin样转化酶(furin-like convertase)的作用下发生裂解，产生胞外区(Notch extraCellular domain，NEC)和跨膜片段(Notch transmembrane fragment，NTM)2个亚基，NEC与NTM以二硫键连接在一起，形成异二聚体形式的Notch受体，位于细胞膜表面；第2个裂解点(S2)与配体结合后，在金属蛋白酶/肿瘤坏死因子- α 转换酶作用下裂解为2个片段，N端裂解产物(胞外区)被配体表达细胞吞噬，而C端裂解产物进一步在跨膜区的第3个裂解点(S3)经1高分子量多蛋白联合体(其中主要包括r-分泌酶，突变型早老素和各种的辅因子)所裂解，释放Notch蛋白的活化形式NICD(ICN)。(2) NICD(ICN)进入细胞核，通过RAM域和cdc/ankyrin重复序结合CSL蛋白[CBF1、Su(H)、LAG1]并募集核转录激活蛋白家族MAML，形成三元络合转录激活物(NICD-CSL-MAML)后，Notch靶基因转录编码HES和HEY等在内的碱性螺旋-环-螺旋(bHLH)家族转录因子,这些转录因子促进下游基因表达，从而促进细胞增殖和抑制细胞分化。(MAML募集组蛋白乙酰转移酶p300(HDAC)，使组蛋白乙酰化，NICD与CSL蛋白的结合使CSL蛋白由转录抑制物转变为转录激活物，激活靶基因的转录。

二、CSL非依赖途径：Notch受体的ANK区与细胞内的锌指蛋白Deltex结合，抑制转录因子E47(目前研究较少)。Notch信号转导有三种调节方式：1.胞外水平，一种是通过与Notch的胞外段相互作用，从而影响正常的Notch受体与配体的结合，进而影响信号的传导，如：Fringe、Wingless、Scabrous等。另一种是通过在金属蛋白酶的作用下产生受体和配体的活性片段，影响正常Notch受体和配体的结合。2.胞内水平，调节分子仍然主要是通过蛋白水解和相互作用这两种方式来进行调节的。主要为：Presenilins蛋白酶；Deltex是一个含有zinc finger结构域蛋白，是Notch信号途径的负性调节物；numb是膜相关蛋白。3.胞核水平：如果蝇的核内蛋白Mastermind和Groucho，它们可调控由Notch激活引起基因表达。已证明Mastermind是通过结合在染色质的特定结构上，上调或下调基因的表达。Groucho是一个非bHLH蛋白，它可以与DNA结合蛋白bHLH、E(sp1)/HES相互作用，协同抑制转录。研究证明，Groucho可与染色质上的组蛋白H3结合使转录停止。



靶标	产品货号	产品名称	反应种属	应用
AKT1	db1672	AKT1 Rabbit pAb	Human, Mouse	WB,IHC,ICC/IF,FC,IP
	db15719	AKT1 Recombinant Rabbit mAb	Human, Mouse	WB,IHC,ICC/IF,FC,IP
	db3626	Phospho-AKT1 (Ser473) Rabbit pAb	Human, Mouse, Rat	WB, IHC, ICC/IF
	db20221	Phospho-AKT1 (Ser124) Rabbit pAb	Human, Mouse, Rat	WB,IP
	db20482	Phospho-AKT1 (Thr450) Rabbit pAb	Human, Mouse, Rat	WB,IHC,IP
	db8405	Phospho-AKT1 (Ser129) Rabbit pAb	Human, Mouse, Rat	WB
	db1727	Phospho-AKT1 (Ser473) Rabbit pAb	Human, Mouse, Rat	WB,IHC,ICC/IF
	db11063	Phospho-AKT1 (Thr450) Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IHC,IP
	db14851	Phospho-AKT1 (Ser473) Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IHC,ICC/IF
	db13907	Phospho-AKT1 (Ser129) Recombinant Rabbit mAb	Human, Mouse, Rat	WB
	db12718	Phospho-AKT1 (Ser124) Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IP
	db11197	Phospho-AKT1 (Ser473) Recombinant Rabbit mAb	Human, Mouse, Rat	WB, IHC, ICC/IF
CTBP1	db22463	CTBP1 Rabbit pAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC,IP
	db11279	CTBP1 Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC,IP
EGFL7	db9855	EGFL7 Rabbit pAb	Human	WB,IHC,ICC/IF
	db12748	EGFL7 Recombinant Rabbit mAb	Human	WB,IHC,ICC/IF
HDAC1	db2407	HDAC1 Rabbit pAb	Human, Mouse, Rat	WB
	db6538	HDAC1 (3F5) Mouse mAb	Human, Rat, Mouse	IHC-P
	db11944	HDAC1 Recombinant Rabbit mAb	Human, Mouse, Rat	WB
HDAC2	db3013	HDAC2 Rabbit pAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC,IP
	db2911	HDAC2 Rabbit pAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC,IP
	db6345	HDAC2 (2D9) Mouse mAb	Human, Mouse, Rat, Monkey	WB,ICC/IF
	db11911	HDAC2 Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC,IP
	db15456	HDAC2 Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IHC,ICC/IF,FC,IP
KDM5A	db9340	KDM5A/Jarid1A/RBBP2 Rabbit pAb	Human, Mouse, Rat	WB,FC
	db503	KDM5A/Jarid1A/RBBP2 Rabbit pAb	Human, Mouse	WB,ICC/IF,FC,IP
	db15949	KDM5A/Jarid1A/RBBP2 Recombinant Rabbit mAb	Human, Mouse	WB,ICC/IF,FC,IP
	db12806	KDM5A/Jarid1A/RBBP2 Recombinant Rabbit mAb	Human, Mouse, Rat	WB,FC
MEF2C	db4346	MEF2C Rabbit pAb	Human, Mouse, Rat	WB, IHC, ICC/IF, FC
	db305	MEF2C Rabbit pAb	Human, Rat	WB,IHC
	db15999	MEF2C Recombinant Rabbit mAb	Human, Rat	WB,IHC
	db12071	MEF2C Recombinant Rabbit mAb	Human, Mouse, Rat	WB, IHC, ICC/IF, FC
NEDD4	db3701	NEDD4 Rabbit pAb	Human, Mouse, Rat	WB,FC,IP
	db14224	NEDD4 Recombinant Rabbit mAb	Human, Mouse, Rat	WB,FC,IP
NOTCH1	db1840	Notch1 Rabbit pAb	Human, Mouse	WB,IHC,ICC/IF,FC
	db14172	Notch1 Recombinant Rabbit mAb	Human, Mouse	WB,IHC,ICC/IF,FC
NUMB	db9860	NUMB Rabbit pAb	Human, Mouse, Rat	WB,IHC,FC,IP
	db4087	NUMB Rabbit pAb	Human, Mouse, Rat	WB
	db15112	NUMB Recombinant Rabbit mAb	Human, Mouse, Rat	WB
	db11426	NUMB Recombinant Rabbit mAb	Human, Mouse, Rat	WB,IHC,FC,IP