Recombinant DGRmAb®

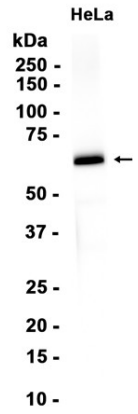
AMPK alpha 1 (DGR12278) Rabbit mAb (PBS Only)

db15794-PBS **Package : 10μg 100μg**

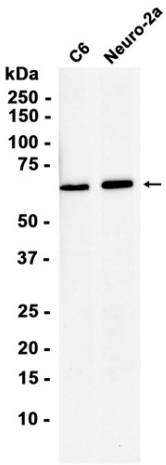
Product Name : AMPK alpha 1 (DGR12278) Rabbit mAb (PBS Only)
Cat.No.: db15794-PBS
Synonyms : AMPK; AMPKa1
Application : WB, IHC-P, ICC/IF, FC, IP
Reactivity : Human,Mouse,Rat
Host species : Rabbit

Background	The protein encoded by this gene belongs to the ser/thr protein kinase family. It is the catalytic subunit of the 5'-prime-AMP-activated protein kinase (AMPK). AMPK is a cellular energy sensor conserved in all eukaryotic cells. The kinase activity of AMPK is activated by the stimuli that increase the cellular AMP/ATP ratio. AMPK regulates the activities of a number of key metabolic enzymes through phosphorylation. It protects cells from stresses that cause ATP depletion by switching off ATP-consuming biosynthetic pathways. Alternatively spliced transcript variants encoding distinct isoforms have been observed. [provided by RefSeq, Jul 2008]
Immunogen	A synthetic peptide of human AMPK alpha 1
Gene ID	5562
Swiss Prot	Q13131
Synonyms	AMPK; AMPKa1
Reactivity	Human,Mouse,Rat
Application	WB, IHC-P, ICC/IF, FC, IP
Calculated MW	63 kDa
Observed MW	63 kDa
Host species	Rabbit
Clonality	Monoclonal
Clonality No.	DGR12278
Isotype	IgG
Purity	Affinity Purification
Conjugation	Un-conjugated

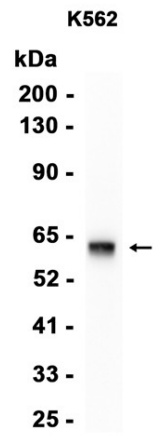
Concentration	1 mg/mL
Formulation	PBS Only
Storage Stability	Store at -20°C. Recommended to aliquot into single-use vials. Supplied in 1X PBS (pH 7.4). BSA and Azide Free. Stable for 12 months from date of receipt.



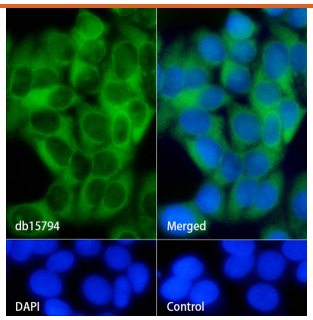
Western blot analysis of extracts from HeLa cells using db15794 at 1:1000.



Western blot analysis of extracts from C6 and Neuro-2a cells using db15794 at 1:1000.



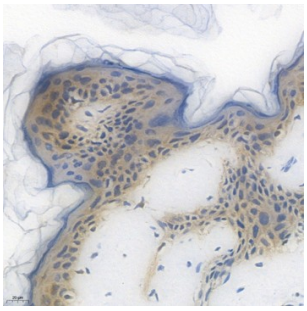
Western blot analysis of extracts from K562 cells using db15794 at 1:1000.



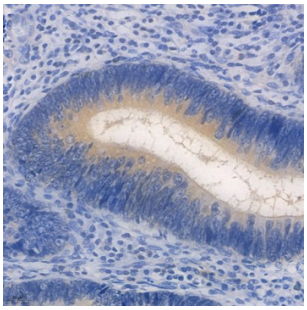
Immunofluorescence analysis of MCF-7 cells labelling AMPK alpha 1 with db15794.

The cells were fixed with cold 100% methanol (10min, 4℃) and blocked in 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween 20 for 1h. The cells were then incubate with db15794 (1:100) at room temprature for 1h, followed by a further incubation at room temperature for 45min with Goat Anti Rabbit IgG (H+L)-AF488 (db10005, shown in green). Nuclear DNA was labeled in blue with DAPI.

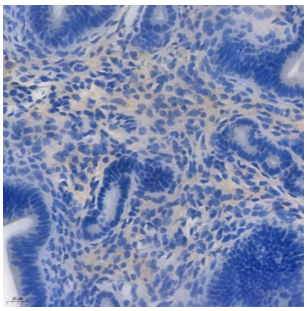
Control: Secondary antibody only.



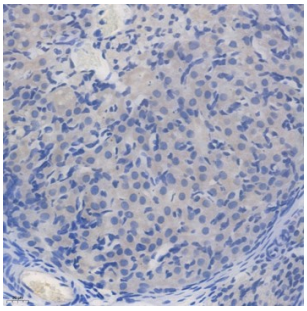
Immunohistochemical analysis of paraffin-embedded human skin tissue labeling AMPK alpha 1 with db15794. Counter stained with Hematoxylin.



Immunohistochemical analysis of paraffin-embedded human intestinal carcinoma tissue labeling AMPK alpha 1 with db15794. Counter stained with Hematoxylin.



Immunohistochemical analysis of paraffin-embedded mouse uterine tissue labeling AMPK alpha 1 with db15794. Counter stained with Hematoxylin.



Immunohistochemical analysis of paraffin-embedded rat ovarian tissue labeling AMPK alpha 1 with db15794. Counter stained with Hematoxylin.