Recombinant DGRmAb®

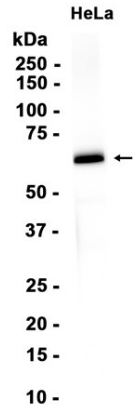
AMPK alpha 1 (DGR12278) Rabbit mAb

db15794 **Package : 10μL 20μL 50μL 100μL**

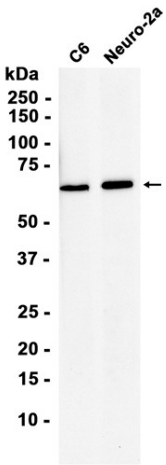
Product Name : AMPK alpha 1 (DGR12278) Rabbit mAb
Cat.No.: db15794
Synonyms : AMPK; AMPKa1
Application : WB, IHC-P, ICC/IF, FC, IP
Reactivity : Human,Mouse,Rat
Host species : Rabbit

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
Recommended dilution	WB: 1:1000-1:5000 IHC-P: 1:100-1:200 ICC/IF: 1:100-1:200 FC: 1:100-1:200 IP: 1:50
Calculated MW	63 kDa
Observed MW	63 kDa
Host species	Rabbit
Clonality	Monoclonal

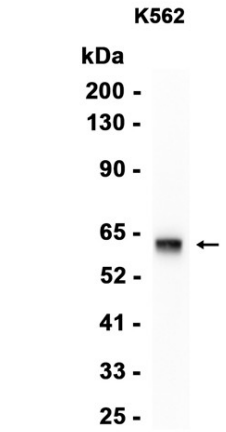
Clonality No.	DGR12278
Isotype	IgG
Purity	Affinity Purification
Conjugation	Un-conjugated
Storage Stability	Store at -20°C. Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% sodium azide and 0.05% BSA. Stable for 12 months from date of receipt.



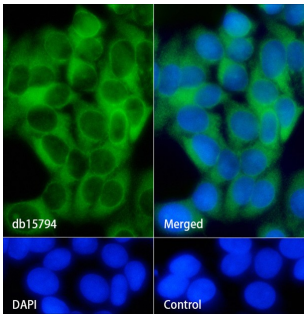
Western blot analysis of extracts from HeLa cells using db15794 at 1:1000.



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



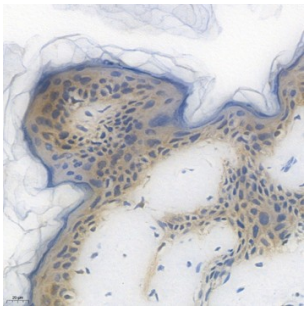
Western blot analysis of extracts from K562 cells using db15794 at 1:1000.



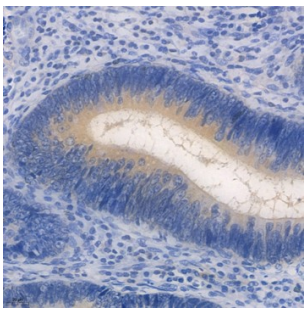
Immunofluorescence analysis of MCF-7 cells labelling AMPK alpha 1 with db15794.

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.

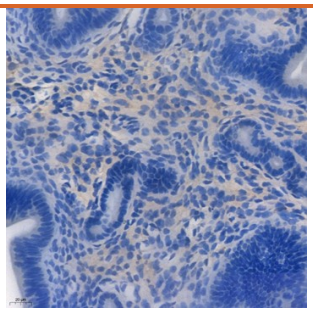
Control: Secondary antibody only.



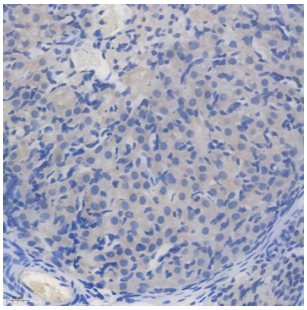
Immunohistochemical analysis of paraffin-embedded human skin tissue labeling AMPK alpha 1 with db15794. Counter stained with Hematoxylin.



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.