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AMPK alpha-1 Rabbit pAb

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Catalog # AP94150

Product Information

Application	WB
Reactivity	Human
Predicted	Rat, Mouse
Host	Rabbit
Clonality	Polyclonal
Physical State	Liquid
Immunogen	Recombinant human AMPK alpha-1 protein
Epitope Specificity	1-207/559
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm. Nucleus. Note=In response to stress, recruited by p53/TP53 to specific promoters.
DISEASE	Defects in CRYAB are the cause of myofibrillar alpha-B crystallin-related (MFM-CRYAB) [MIM:608810]. A neuromuscular disorder that results in weakness of the proximal and distal limb muscles, weakness of the neck, velopharynx and trunk muscles, hypetrophic cardiomyopathy, and cataract in a subset of patients.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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]

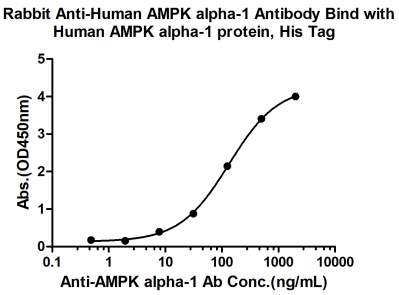
Additional Information

Dilution	WB=1:500-2000,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

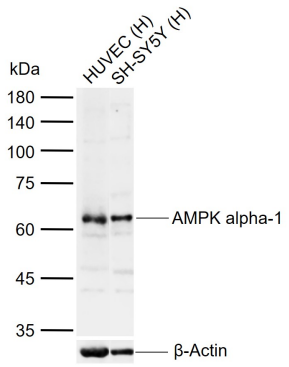
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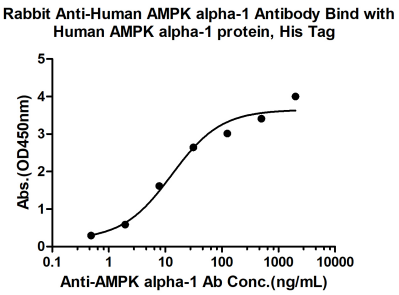
Images



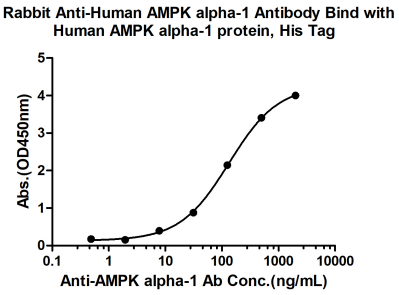
Measured by its binding ability in a indirect ELISA. Immobilized Human AMPK alpha-1 protein, His Tag (Cat. AP94150) at 2 μg/mL (100 μL/well) can bind Rabbit Anti-Human AMPK alpha-1 Antibody, the EC50 is 133.7 ng/mL.



Sample:
Lane 1: Human HUVEC cell lysates
Lane 2: Human SH-SY5Y cell lysates
Primary: Anti-AMPK alpha-1 (AP94150) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 64 kDa
Observed band size: 64 kDa



Measured by its binding ability in a indirect ELISA. Immobilized Human AMPK alpha-1 protein, His Tag (Cat. bs-41337P) at 2 μg/mL (100 μL/well) can bind Rabbit Anti-Human AMPK alpha-1 Antibody, the EC50 is 13.01 ng/mL.



Measured by its binding ability in a indirect ELISA. Immobilized Human AMPK alpha-1 protein, His Tag (Cat. bs-41337P) at 2 μg/mL (100 μL/well) can bind Rabbit Anti-Human AMPK alpha-1 Antibody, the EC50 is 133.7 ng/mL.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.