

phospho-AMPK alpha-1 (Thr183) Rabbit pAb

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Catalog # AP94703

Product Information

Application	IHC-P, IHC-F, IF
Reactivity	Rat, Human, Mouse
Predicted	Pig, Dog, Rabbit, Chicken, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Physical State	Liquid
Immunogen	KLH conjugated Synthesised phosphopeptide derived from human AMPK alpha 1 around the phosphorylation site of Thr198(isoform 2)/Thr183(isoform 1)
Epitope Specificity	LR(p-T)SC
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, hypertrophic 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]

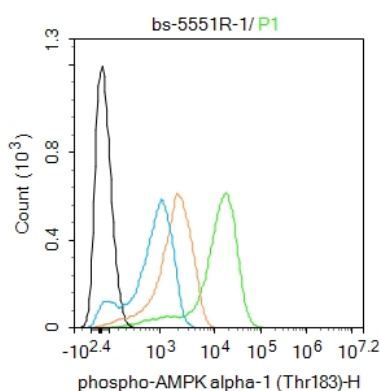
Additional Information

Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,Flow-Cyt=1ug/test
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.

Background

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Images



Blank control:U937.

Primary Antibody (green line): Rabbit Anti-phospho-AMPK alpha-1 (Thr183) antibody (AP94703)

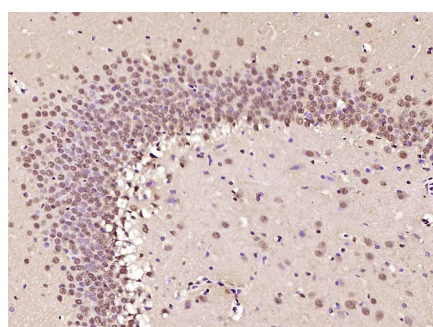
Dilution: 1ug/Test;

Secondary Antibody : Goat anti-rabbit IgG-FITC

Dilution: 0.5ug/Test.

Protocol

The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 0.1% PBST for 20 min at room temperature.The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.



Paraformaldehyde-fixed, paraffin embedded (rat brain);

Antigen retrieval by boiling in sodium citrate buffer

(pH6.0) for 15min; Block endogenous peroxidase by 3%

hydrogen peroxide for 20 minutes; Blocking buffer

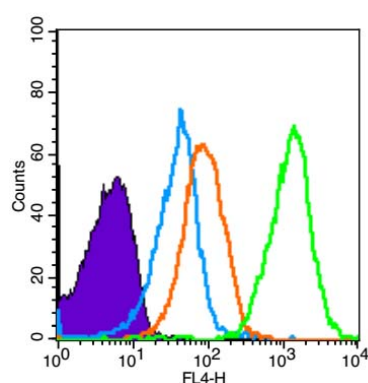
(normal goat serum) at 37°C for 30min; Antibody

incubation with (phospho-AMPK alpha-1 (Thr183))

Polyclonal Antibody, Unconjugated (AP94703) at 1:200

overnight at 4°C, followed by operating according to SP

Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Blank control (Black line): Mouse spleen(Black). Primary

Antibody (green line): Rabbit Anti-phospho-AMPK alpha-1

(Thr183) antibody (AP94703) Dilution: 3 µg /10^6 cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody (white blue line): Goat anti-rabbit

IgG-AF647 Dilution: 1 µg /test. Protocol The cells were

fixed with 4% PFA (10min at room temperature)and then

permeabilized with 90% ice-cold methanol for 20 min at

room temperature. The cells were then incubated in

5%BSA to block non-specific protein-protein interactions

for 30 min at room temperature .Cells stained with

Primary Antibody for 30 min at room temperature. The

secondary antibody used for 40 min at room

temperature. Acquisition of 10,000 events was

performed.

Blank control:U937. Primary Antibody (green line): Rabbit

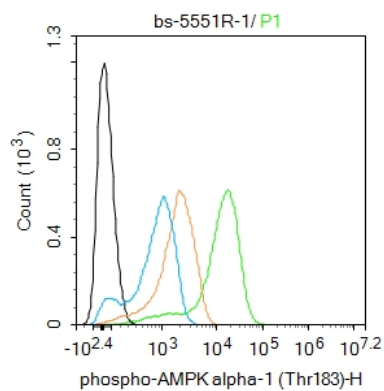
Anti-phospho-AMPK alpha-1 (Thr183) antibody (AP94703)

Dilution: 1ug/Test; Secondary Antibody : Goat anti-rabbit

IgG-FITC Dilution: 0.5ug/Test. Protocol The cells were

fixed with 4% PFA (10min at room temperature)and then

permeabilized with 0.1% PBST for 20 min at room



temperature. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

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