

AMPKa1/AMPKa2 Rabbit pAb

Catalog No.: A17290 **6 Publications**

Basic Information

Observed MW

62kDa

Calculated MW

64kDa/65kDa

Category

Primary antibody

Applications

ELISA, WB, IF/ICC

Cross-Reactivity

Human, Mouse, Rat

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.

Recommended Dilutions

WB	1:100 - 1:500
IF/ICC	1:50 - 1:200

Immunogen Information

Gene ID

5562/5563

Swiss Prot

Q13131/P54646

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 5-280 of human AMPKa1/AMPKa2 (NP_006242.5).

Synonyms

AMPKa1/AMPKa2

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

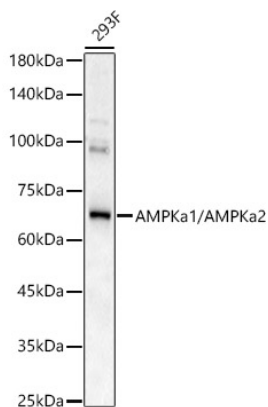
Affinity purification

Storage

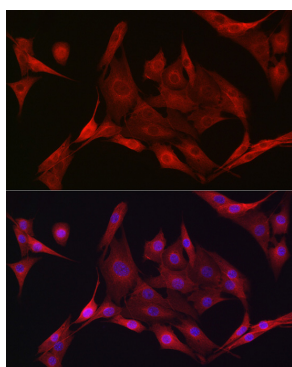
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300, 50% glycerol, pH7.3.

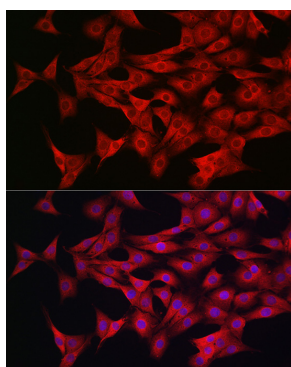
Validation Data



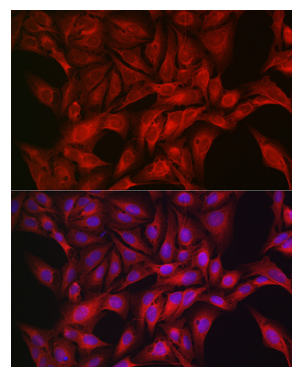
Western blot analysis of 293F, using AMPKa1/AMPKa2 antibody (A17290) at 1:500 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 90s.



Immunofluorescence analysis of NIH/3T3 cells using AMPKa1/AMPKa2 Rabbit pAb (A17290) at dilution of 1:50 (40x lens). Blue: DAPI for nuclear staining.



Immunofluorescence analysis of PC-12 cells using AMPKa1/AMPKa2 Rabbit pAb (A17290) at dilution of 1:50 (40x lens). Blue: DAPI for nuclear staining.



Immunofluorescence analysis of U2OS cells using AMPKa1/AMPKa2 Rabbit pAb (A17290) at dilution of 1:50 (40x lens). Blue: DAPI for nuclear staining.