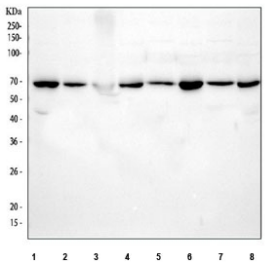
AMPK alpha 1 Antibody / PRKAA1 (RQ4362)

Catalog No.	Formulation	Size
RQ4362	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q13131
Localization	Cytoplasmic
Applications	Western blot: 0.5-1ug/ml Direct ELISA: 0.1-0.5ug/ml
Limitations	This AMPK alpha 1 antibody is available for research use only.



Western blot testing of 1) human SiHa, 2) human HeLa, 3) human RT4, 4) human A549, 5) rat brain, 6) rat PC-12, 7) mouse brain and 8) mouse NIH 3T3 cell lysate with AMPK alpha 1 antibody. Predicted molecular weight ~63 kDa.

Description

5'-AMP-activated protein kinase catalytic subunit alpha-1 is an enzyme that in humans is encoded by the PRKAA1 gene. 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.

Application Notes

Optimal dilution of the AMPK alpha 1 antibody should be determined by the researcher.

Immunogen

A recombinant human protein corresponding to amino acids F377-R446 was used as the immunogen for the AMPK alpha 1 antibody.

Storage

After reconstitution, the AMPK alpha 1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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