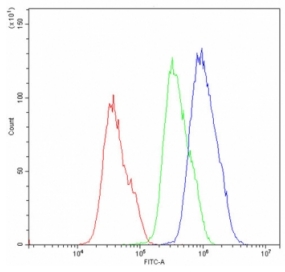
PRKAB2 Antibody / AMPK beta 2 [clone 6G1] (RQ4500)

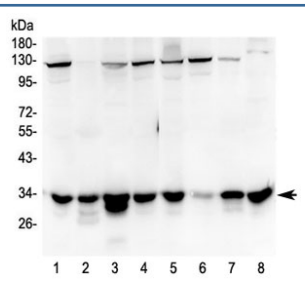
Catalog No.	Formulation	Size
RQ4500	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b
Clone Name	6G1
Purity	Protein G affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	O43741
Applications	Western blot: 0.5-1ug/ml Flow Cytometry: 1-3ug/10^6 cells
Limitations	This PRKAB2 antibody is available for research use only.



Flow cytometry testing of human PC-3 cells with PRKAB2 antibody at 1ug/10^6 cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= PRKAB2 antibody.



Western blot testing of human 1) HeLa, 2) placenta, 3) 293T, 4) A549, 5) A375, 6) A431, 7) U-2 OS and 8) K562 lysate with PRKAB2 antibody at 0.5ug/ml. Predicted molecular weight ~30 kDa.

Description

5'-AMP-activated protein kinase subunit beta-2 is an enzyme that in humans is encoded by the PRKAB2 gene. The protein encoded by this gene is a regulatory subunit of the AMP-activated protein kinase (AMPK). AMPK is a heterotrimer consisting of an alpha catalytic subunit, and non-catalytic beta and gamma subunits. It is an important energy-sensing enzyme that monitors cellular energy status. In response to cellular metabolic stresses, AMPK is activated, and thus phosphorylates and inactivates acetyl-CoA carboxylase (ACC) and beta-hydroxy beta-methylglutaryl-CoA reductase (HMGCR), key enzymes involved in regulating de novo biosynthesis of fatty acid and cholesterol. This subunit may be a positive regulator of AMPK activity. It is highly expressed in skeletal muscle and thus may have tissue-specific roles. Multiple alternatively spliced transcript variants have been found for this gene.

Application Notes

Optimal dilution of the PRKAB2 antibody should be determined by the researcher.

Immunogen

Amino acids DKEFVSWQQDLEDSVKPTQQARPTVIRWSEGGKE were used as the immunogen for the PRKAB2 antibody.

Storage

After reconstitution, the PRKAB2 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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