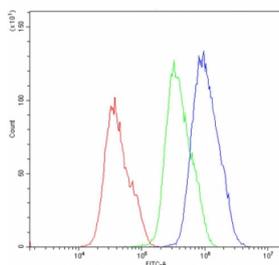


## PRKAB2 Antibody / AMPK beta 2 [clone 6G1] (RQ4500)

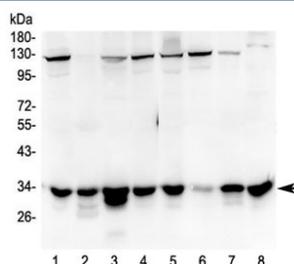
Catalog No.	Formulation	Size
RQ4500	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

[Bulk quote request](#)

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



Flow cytometry testing of human PC-3 cells with PRKAB2 antibody at 1ug/10<sup>6</sup> 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 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.