

PRKAB1 Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a full length recombinant PRKAB1.

Catalog # AT3428a

Specification

PRKAB1 Antibody (monoclonal) (M02) - Product Information

Application	IF, WB, E
Primary Accession	Q9Y478
Other Accession	BC001007
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2a Kappa
Calculated MW	30382

PRKAB1 Antibody (monoclonal) (M02) - Additional Information

Gene ID 5564

Other Names

5'-AMP-activated protein kinase subunit beta-1, AMPK subunit beta-1, AMPKb, PRKAB1, AMPK

Target/Specificity

PRKAB1 (AAH01007, 1 a.a. ~ 270 a.a)
full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution

WB~~1:500~1000

Format

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

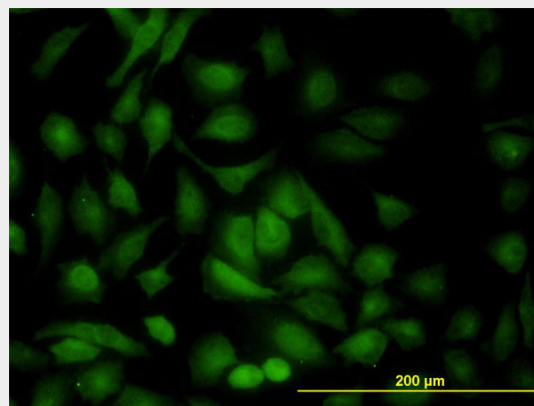
Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

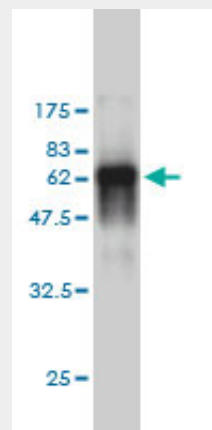
Precautions

PRKAB1 Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

PRKAB1 Antibody (monoclonal) (M02) - Protocols



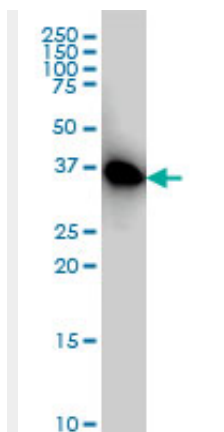
Immunofluorescence of monoclonal antibody to PRKAB1 on HeLa cell. [antibody concentration 10 ug/ml]



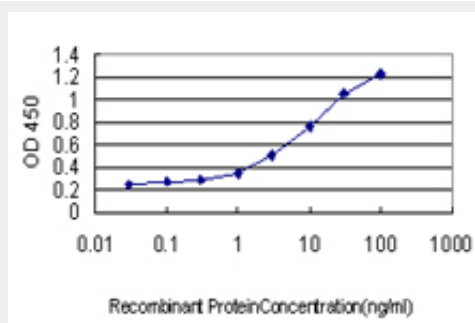
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (55.44 KDa) .

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)



PRKAB1 monoclonal antibody (M02), clone 2C3 Western Blot analysis of PRKAB1 expression in HeLa (Cat # AT3428a)



Detection limit for recombinant GST tagged PRKAB1 is approximately 0.1ng/ml as a capture antibody.

PRKAB1 Antibody (monoclonal) (M02) - Background

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. AMPK 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. The myristoylation and phosphorylation of this subunit have been shown to affect the enzyme activity and cellular localization of AMPK. This subunit may also serve as an adaptor molecule mediating

the association of the AMPK complex.

**PRKAB1 Antibody (monoclonal) (M02) -
References**

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