

PRKAB2 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant PRKAB2.

Catalog # AT3429a

Specification

PRKAB2 Antibody (monoclonal) (M01) - Product Information

Application	WB, E
Primary Accession	O43741
Other Accession	BC053610
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2b kappa
Calculated MW	30302

PRKAB2 Antibody (monoclonal) (M01) - Additional Information

Gene ID 5565

Other Names

5'-AMP-activated protein kinase subunit beta-2, AMPK subunit beta-2, PRKAB2

Target/Specificity

PRKAB2 (AAH53610, 1 a.a. ~ 272 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

PRKAB2 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

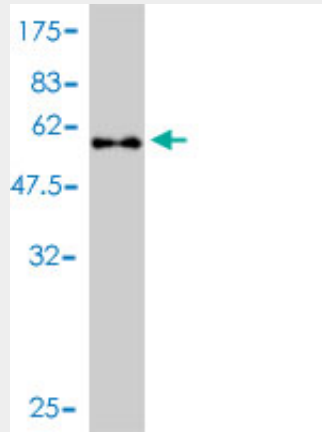
PRKAB2 Antibody (monoclonal) (M01) - Protocols

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

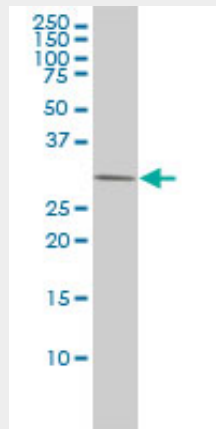
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

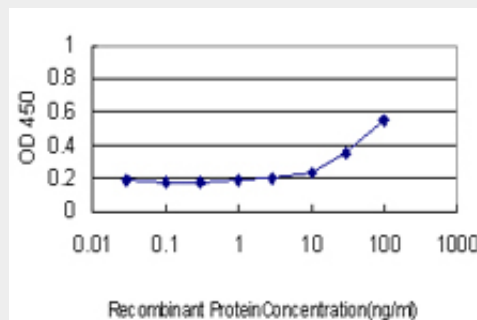
PRKAB2 Antibody (monoclonal) (M01) - Images



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (55.66 kDa) .



PRKAB2 monoclonal antibody (M01), clone 2G9 Western Blot analysis of PRKAB2 expression in HeLa ((Cat # AT3429a)



Detection limit for recombinant GST tagged PRKAB2 is approximately 10ng/ml as a capture antibody.

PRKAB2 Antibody (monoclonal) (M01) - 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. It is highly expressed in skeletal muscle and thus may have tissue-specific roles.

PRKAB2 Antibody (monoclonal) (M01) - References

COMMON VARIANTS IN 40 GENES ASSESSED FOR DIABETES INCIDENCE AND RESPONSE TO METFORMIN AND LIFESTYLE INTERVENTIONS IN THE DIABETES PREVENTION PROGRAM. Jablonski KA, et al. *Diabetes*, 2010 Aug 3. PMID 20682687. Variation at the NFATC2 Locus Increases the Risk of Thiazolidinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. *Diabetes Care*, 2010 Jul 13. PMID 20628086. Integrative predictive model of coronary artery calcification in atherosclerosis. McGeachie M, et al. *Circulation*, 2009 Dec 15. PMID 19948975. Gene-centric association signals for lipids and apolipoproteins identified via the HumanCVD BeadChip. Talmud PJ, et al. *Am J Hum Genet*, 2009 Nov. PMID 19913121. Purification and characterization of truncated human AMPK alpha 2 beta 2 gamma 3 heterotrimer from baculovirus-infected insect cells. Ramanathan L, et al. *Protein Expr Purif*, 2010 Mar. PMID 19836452.