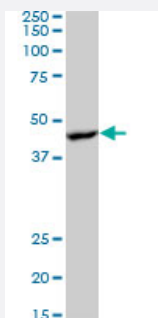


PRKAB1 monoclonal antibody (M07), clone 1D3

Catalog # H00005564-M07

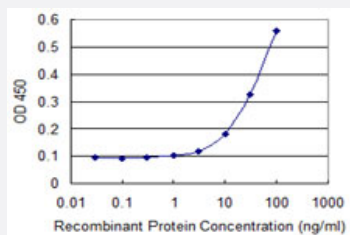
Size 100 ug

Applications



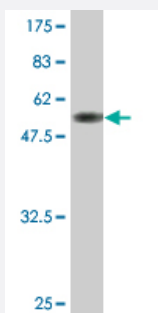
Western Blot (Cell lysate)

PRKAB1 monoclonal antibody (M07), clone 1D3. Western Blot analysis of PRKAB1 expression in Raw 264.7 (Cat # L024V1).



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged PRKAB1 is 3 ng/ml as a capture antibody.



Western Blot detection against Immunogen (55.44 KDa) .

Specification

Product Description

Mouse monoclonal antibody raised against a full-length recombinant PRKAB1.

Immunogen	PRKAB1 (AAH17671, 1 a.a. ~ 270 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MGNTSSERAALERHGGHKTPRRDSSGGTKDGDPRKILMDSPEDADLFHSEEIKAPEKEEFLAW QHDLEVNDKAPAQARPTVFRWTGGGKEVYLSGSFNNWSKLPLTRSHNNFVAILDLPEGEHQYKF FVDGQWTHDPSEPMTSQLGTVNNIIQVKKTD FEVFDALMVDSQKCSDVSELSSSPGPYHQEPY VCKPEERFRAPPILPPHLLQVILNKDTGISCDPALLPEPNHVMLNHLIALSIKDGVMVLSATHRYKK KYVTLLYKPI
Host	Mouse
Reactivity	Human, Mouse
Interspecies Antigen Sequence	Mouse (97)
Isotype	IgG2b Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (55.44 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

PRKAB1 monoclonal antibody (M07), clone 1D3. Western Blot analysis of PRKAB1 expression in Raw 264.7 (Cat # L024V1).

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged PRKAB1 is 3 ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

Gene Info — PRKAB1

Entrez GeneID	5564
GeneBank Accession#	BC017671
Protein Accession#	AAH17671
Gene Name	PRKAB1
Gene Alias	AMPK, HAMPKb, MGC17785
Gene Description	protein kinase, AMP-activated, beta 1 non-catalytic subunit
Omim ID	602740
Gene Ontology	Hyperlink
Gene Summary	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. [provided by RefSeq]
Other Designations	5'-AMP-activated protein kinase beta-1 subunit AMP-activated protein kinase beta 1 non-catalytic subunit AMP-activated protein kinase beta subunit AMPK beta -1 chain AMPK beta 1 protein kinase, AMP-activated, noncatalytic, beta-1

Pathway

- [Adipocytokine signaling pathway](#)
- [Hypertrophic cardiomyopathy \(HCM\)](#)
- [Insulin signaling pathway](#)

Disease

- [Alzheimer disease](#)
- [Atherosclerosis](#)

- [Calcinosis](#)
- [Cardiovascular Diseases](#)
- [Coronary Artery Disease](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Drug Toxicity](#)
- [Edema](#)
- [Metabolic Syndrome X](#)
- [Neoplasms](#)
- [Osteoporosis](#)