

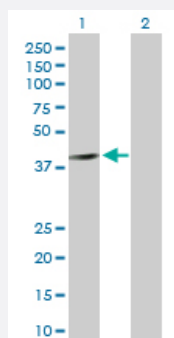
MaxPab®

PRKAB1 purified MaxPab rabbit polyclonal antibody (D01P)

Catalog # H00005564-D01P

Size 100 ug

Applications



Western Blot (Transfected lysate)

Western Blot analysis of PRKAB1 expression in transfected 293T cell line ([H00005564-T01](#)) by PRKAB1 MaxPab polyclonal antibody.

Lane 1: PRKAB1 transfected lysate(30.40 KDa).

Lane 2: Non-transfected lysate.

Specification

Product Description	Rabbit polyclonal antibody raised against a full-length human PRKAB1 protein.
Immunogen	PRKAB1 (NP_006244.2, 1 a.a. ~ 270 a.a) full-length human protein.
Sequence	MGNTSSERAALERHGGHKTPRRDSSGGTKDGRPKILMDSPEDADLFHSEEIKAPEKEEFLAW QHDLEVNDKAPAQARPTVFRWTGGGKEVYLSGSFNNWSKLPLTRSHNNFVAILDLPEGEHQYKF FVDGQWTHDPSEPMTSQLGTVNNIIQVKKTD FEVFDALMVDSQKCSDVSELSSSPGPYHQEPY VCKPEERFRAPPILPPHLLQVILNKDTGISCDPALLPEPNHVMLNHLIALSIKDGVMVLSATHRYKK KYVTLLYKPI
Host	Rabbit
Reactivity	Human
Interspecies Antigen Sequence	Mouse (97)
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

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[Protocol Download](#)

Gene Info — PRKAB1

Entrez GeneID [5564](#)

GeneBank Accession# [NM_006253](#)

Protein Accession# [NP_006244.2](#)

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](#)