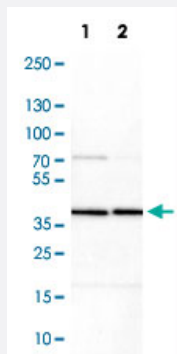


PRKAB1 polyclonal antibody

Catalog # PAB30688

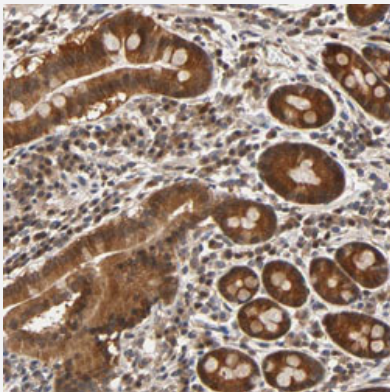
Size 100 uL

Applications



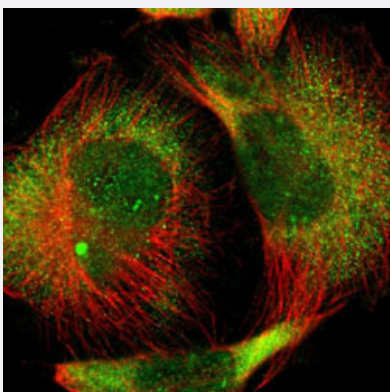
Western Blot (Cell lysate)

Western Blot analysis of Lane 1: NIH-3T3 cell lysate (mouse embryonic fibroblast cells) and Lane 2: NBT-II cell lysate (Wistar rat bladder tumor cells) with PRKAB1 polyclonal antibody (Cat # PAB30688).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human duodenum with PRKAB1 polyclonal antibody (Cat # PAB30688) shows strong cytoplasmic positivity in glandular cells.



Immunofluorescence

Immunofluorescent staining of U-251 MG with PRKAB1 polyclonal antibody (Cat # PAB30688) (Green) shows positivity in cytoplasm and nucleus but excluded from the nucleoli.

Specification

Product Description	Rabbit polyclonal antibody raised against partial recombinant human PRKAB1.
Immunogen	Recombinant protein corresponding to human PRKAB1.
Sequence	MGNTSSERAALERHGGHKTPRRDSSGGTKDGRPKILMDSPEDADLFHSEEIKAPEKEEFLAW QHDLEVNDKAPAQARPTVFRWTGGGKEVYLSGSFNNW
Host	Rabbit
Reactivity	Human, Mouse, Rat
Form	Liquid
Purification	Antigen affinity purification
Isotype	IgG
Recommend Usage	Immunofluorescence (1-4 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:50-1:200) Western Blot (1:100-1:250) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (40% glycerol, 0.02% sodium azide).
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western Blot analysis of Lane 1: NIH-3T3 cell lysate (mouse embryonic fibroblast cells) and Lane 2: NBT-II cell lysate (Wistar rat bladder tumor cells) with PRKAB1 polyclonal antibody (Cat # PAB30688).

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Gene Info — PRKAB1

Entrez GeneID	5564
Protein Accession#	Q9Y478
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](#)