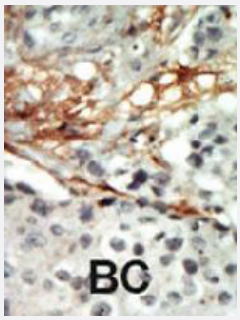
PRKAB2 polyclonal antibody

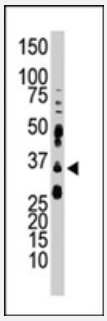
Catalog # PAB4576 Size 400 uL

Applications



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

Formalin-fixed and paraffin-embedded human cancer tissue reacted with PRKAB2 polyclonal antibody (Cat # PAB4576) , which was peroxidase-conjugated to the secondary antibody, followed by AEC staining . This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated . BC = breast carcinoma .



Western Blot (Tissue lysate)

The PRKAB2 polyclonal antibody (Cat # PAB4576) is used in Western blot to detect PRKAB2 in mouse brain tissue lysate .

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of PRKAB2.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to N-terminus of human PRKAB2.
Host	Rabbit
Reactivity	Human, Mouse
Form	Liquid
Purification	Protein G purification

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Recommend Usage	ELISA (1:1000) Western Blot (1:100-500) Immunohistochemistry (1:50-100) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% 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 shoul d be handled by trained staff only.

Applications

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

  Formalin-fixed and paraffin-embedded human cancer tissue reacted with PRKAB2 polyclonal antibody (Cat # PAB4576) , which was peroxidase-conjugated to the secondary antibody, followed by AEC staining . This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated . BC = breast carcinoma .

- Enzyme-linked Immunoabsorbent Assay

- Western Blot (Tissue lysate)

  The PRKAB2 polyclonal antibody (Cat # PAB4576) is used in Western blot to detect PRKAB2 in mouse brain tissue lysate .

Gene Info — PRKAB2

Entrez GeneID	5565
Protein Accession#	AAKC_HUMAN
Gene Name	PRKAB2
Gene Alias	MGC61468
Gene Description	protein kinase, AMP-activated, beta 2 non-catalytic subunit
Omim ID	602741
Gene Ontology	Hyperlink

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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. It is highly expressed in skeletal muscle and thus may have tissue-specific roles. [provided by RefSeq
Other Designations	5'-AMP-activated protein kinase, beta-2 subunit|AMP-activated protein kinase beta 2 non-catalytic subunit|AMPK beta 2|AMPK beta-2 chain|OTTHUMP00000015910

Publication Reference

- AMP-kinase regulates food intake by responding to hormonal and nutrient signals in the hypothalamus.

  Minokoshi Y, Alquier T, Furukawa N, Kim YB, Lee A, Xue B, Mu J, Foufelle F, Ferre P, Birnbaum MJ, Stuck BJ, Kahn BB.

  Nature 2004 Apr; 428(6982):569.

- Variant screening of PRKAB2, a type 2 diabetes mellitus susceptibility candidate gene on 1q in Pima Indians.

  Prochazka M, Farook VS, Ossowski V, Wolford JK, Bogardus C.

  Molecular and Cellular Probes 2002 Dec; 16(6):421.

Pathway

- Adipocytokine signaling pathway
- Hypertrophic cardiomyopathy (HCM)
- Insulin signaling pathway

Disease

- Alzheimer disease
- Atherosclerosis
- Calcinosis
- Cardiovascular Diseases
- Coronary Artery Disease

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- Diabetes Complications
- Diabetes Mellitus
- Drug Toxicity
- Edema
- Genetic Predisposition to Disease
- Metabolic Syndrome X
- Neoplasms
- Osteoporosis

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