

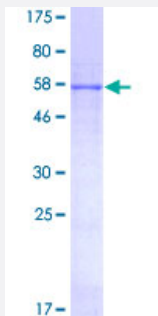
Full-Length

PRKAB2 (Human) Recombinant Protein (P01)

Catalog # H00005565-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human PRKAB2 full-length ORF (AAH53610, 1 a.a. - 272 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MGNTTSDRVSGERHGAKAARSEGAGGHAPGKEHKIMVGSTDDPSVFSLPDSKLPDGKEFVSW
QQDLEDVKPTQQARPTVIRWSEGGKEVFISGSFNNWSTKIPLIKSHNDFVAILDLPEGEHQYKFF
VDGQWVHDPSEPVVTSQLGTINLIHVKKSDFEVFDALKLDSMESSETSCRDLSSSPGPYGQE
MYAFRSEERFKSPPIPPHLLQVILNKDTNISCDPALLPEPNHVMLNHLIALSIKDSVMVLSATHRY
KKKYVTLLYKPI

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

55.66

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — PRKAB2

Entrez GeneID [5565](#)

GeneBank Accession# [BC053610](#)

Protein Accession# [AAH53610](#)

Gene Name PRKAB2

Gene Alias MGC61468

Gene Description protein kinase, AMP-activated, beta 2 non-catalytic subunit

Omim ID [602741](#)

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. 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

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](#)
- [Genetic Predisposition to Disease](#)
- [Metabolic Syndrome X](#)
- [Neoplasms](#)
- [Osteoporosis](#)