

Product information



PRKAB2, 1-272aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP1817

Full name: 5'-AMP-activated protein kinase subunit beta-2

NCBI Accession No.: NP_005390

Description: PRKAB2 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. PRKAB2 may be a positive regulator of AMPK activity. It is highly expressed in skeletal muscle and thus may have tissue-specific roles. Recombinant human PRKAB2 protein, fused to His-tag at N-terminus, was expressed in *E.coli*.

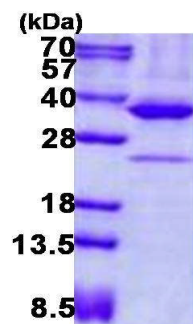
Form: Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol

2M Urea

Molecular Weight: 32.8 kDa(296aa)

Purity: > 90% by SDS - PAGE

Concentration: 1.0 mg/ml (determined by Bradford assay)



15% SDS-PAGE (3ug)

Sequences of amino acids:

MGSSHHHHH SSGLVPRGSH MGS HMGNTTS DRVSGERHGA KAARSEGAGG HAPGKEHKIM VGSTDDPSVF SLPDSKLPGD KEFVSWQQDL
EDSVKPTQQA RPTVIRWSEG GKEVFISGSF NNWSTKIPLI KSHNDFVA IL DLPEGEHQYK FFVDGQWVHD PSEPVVTSQL GTINNLIHVK
KSDFEVFDAL KLDSMESSET SCRDLSSSPP GPYGQEMYAF RSEERFKSPP ILPHLLQVI LNKDTNISCD PALLPEPNHV MLNHLIALSI
KDSVMVLSAT HRYKKKYVTT LLYKPI

General references:

Souza RP. *et al.* (2012) *J Psychiatr Res.* 46:462-468.

Jung KC. *et al.* (2003) *Cytogenet Genome Res.* 103:202C.

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.
Avoid repeated freezing and thawing cycles.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



Manufactured for:

Immuno-Biological Laboratories, Inc. (IBL-America)
8201 Central Ave. NE, Suite P, Minneapolis, Minnesota 55432, USA

Phone: (888) 523-1246 Fax.: (763) 780-2988

Email: info@ibl-america.com Web: www.ibl-america.com