

Product datasheet for **AR50641PU-S**

AMPK beta-2 chain / PRKAB2 (1-272, His-tag) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	AMPK beta-2 chain / PRKAB2 (1-272, His-tag) human recombinant protein, 0.1 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MGSSHHHHHH SSGLVPRGSH MGSHEMGNTTS DRVSGERHGA KAARSEGAGG HAPGKEHKIM VGSTDDPSVF SLPDSKLPDGF KEFVSWQQDL EDSVKPTQQA RPTVIRWSEG GKEVFISGSF NNWSTKIPLI KSHNDFVAIL DLPEGEHQYK FFVDGQWVHD PSEPVTSQL GTINNLIVHK KSDFEVFDAL KLDSMESSET SCRDLSSSPP GPYGQEMYAF RSEERFKSPP ILPPHLLQVI LNKDTNISCD PALLPEPNHV MLNHLYALSI KDSVMVLSAT HRYKKKYVTT LLYKPI
Tag:	His-tag
Predicted MW:	32.8 kDa
Concentration:	lot specific
Purity:	>90% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol 2M Urea
Preparation:	Liquid purified protein
Protein Description:	Recombinant human PRKAB2 protein, fused to His-tag at N-terminus, was expressed in E.coli.
Storage:	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_005390
Locus ID:	5565
UniProt ID:	O43741
Cytogenetics:	1q21.1



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Summary:

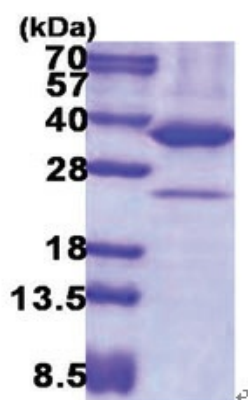
The protein encoded by this gene is a regulatory subunit of the AMP-activated protein kinase (AMPK). AMPK is a heterotrimer consisting of an alpha catalytic subunit, and non-catalytic beta and gamma subunits. AMPK is an important energy-sensing enzyme that monitors cellular energy status. In response 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. Multiple alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jul 2013]

Protein Families:

Druggable Genome

Protein Pathways:

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

Product images:

15% SDS-PAGE (3ug)