

Recombinant Human protein kinase, AMP-activated, beta 1 non-catalytic subunit, His-tagged

Cat. No. PRKAB1-347H Lot. No. (See product label)

SPECIFICATION

Product Overview	PRKAB1, 1-270aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-270 a.a.
Description	5"-AMP-activated protein kinase subunit beta-1, also known as PRKAB1, inhibits protein, carbohydrate and lipid biosynthesis, as well as cell growth and proliferation. AMPK acts via direct phosphorylation of metabolic enzymes, and by longer-term effects via phosphorylation of transcription regulators. Also acts as a regulator of cellular polarity by remodeling the actin cytoskeleton; probably by indirectly activating myosin. Beta non-catalytic subunit acts as a scaffold on which the AMPK complex assembles, via its C-terminus that bridges alpha (PRKAA1 or PRKAA2) and gamma subunits (PRKAG1, PRKAG2 or PRKAG3). Recombinant human PRKAB1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT
Molecular Mass	32.8 kDa (293aa) confirmed by MALDI-TOF(Molecular size on SDS-PAGE will appear higher)

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AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMGNTSSE RAALERHGGH KTPRRDSSGG TKDGDPRKIL MDSPEDADLF HSEEIKAPEK EEFLAWQHDL EVNDKAPAQA RPTVFRWTGG GKEVYLSGSF NNWSKLPLTR SHNNFVAILD LPEGEHQYKF FVDGQWTHDP SEPIVTSQLG TVNNIIQVKK TDFEVFDALM VDSQKCSDVS ELSSPPGPY HQEPYVCKPE ERFRAAPPILP PHLLQVILNK DTGISCDPAL LPEPNHVMLN HLYALSIKDG VMVLSATHRY KKKYVTLLY KPI
Purity	>85% by SDS - PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	0.5 mg/ml (determined by Bradford assay)
GENE INFORMATION	
Gene Name	PRKAB1 protein kinase, AMP-activated, beta 1 non-catalytic subunit [Homo sapiens]
Official Symbol	PRKAB1
Synonyms	PRKAB1; protein kinase, AMP-activated, beta 1 non-catalytic subunit; 5-AMP-activated protein kinase subunit beta-1; AMPK beta 1; AMPKb; AMPK beta -1 chain; AMPK subunit beta-1; AMP-activated protein kinase beta subunit; 5-AMP-activated protein kinase beta-1 subunit; protein kinase, AMP-activated, noncatalytic, beta-1; AMPK; HAMPKb; MGC17785;
Gene ID	5564
mRNA Refseq	NM_006253

Protein Refseq	NP_006244
MIM	602740
UniProt ID	Q9Y478
Chromosome Location	12q24.1-q24.3
Pathway	AMPK signaling, organism-specific biosystem; Adipocytokine signaling pathway, organism-specific biosystem; Adipocytokine signaling pathway, conserved biosystem; Direct p53 effectors, organism-specific biosystem; Energy Metabolism, organism-specific biosystem; Energy dependent regulation of mTOR by LKB1-AMPK, organism-specific biosystem; Hypertrophic cardiomyopathy (HCM), organism-specific biosystem;
Function	AMP-activated protein kinase activity; protein binding; protein kinase binding;

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