

## Product datasheet for **TP303911M**

### AMPK beta 1 (PRKAB1) (NM\_006253) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human protein kinase, AMP-activated, beta 1 non-catalytic subunit (PRKAB1), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC203911 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MGNTSSERAALERHGGHKTPRRDSSGGTKDGRPKILMDSPEADLDFHSEEIKAPEKEEFLAWQHDLEVN  
DKAPAQARPTVFRWTGGGKEVYLSGSFNNWSKLPLTRSHNNFVAILDLPEGEHQYKFFVDGQWTHDPSEP  
IVTSQLGTVNNIIQVKKTDFEVDALMVDSQKCSVDSELSSPPGPYHQEPYVCKPEERFRAPPILP  
LQVILNKDTGISCDPALLPEPNHVMLNHLALSISIKDGMVLSATHRYKKKYVTTLLYKPI

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

Tag:	C-Myc/DDK
Predicted MW:	30.2 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u><a href="#">NP_006244</a></u>
Locus ID:	5564



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UniProt ID: [Q9Y478](#), [A0A024RBN1](#)

RefSeq Size: 2412

Cytogenetics: 12q24.23

RefSeq ORF: 810

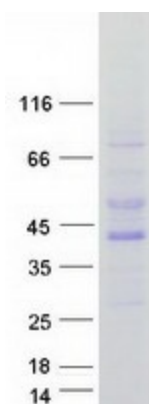
Synonyms: AMPK; HAMPKb

**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. The myristoylation and phosphorylation of this subunit have been shown to affect the enzyme activity and cellular localization of AMPK. This subunit may also serve as an adaptor molecule mediating the association of the AMPK complex. [provided by RefSeq, Jul 2008]

**Protein Families:** Druggable Genome

**Protein Pathways:** Adipocytokine signaling pathway, Hypertrophic cardiomyopathy (HCM), Insulin signaling pathway

### Product images:



Coomassie blue staining of purified PRKAB1 protein (Cat# [TP303911]). The protein was produced from HEK293T cells transfected with PRKAB1 cDNA clone (Cat# [RC203911]) using MegaTran 2.0 (Cat# [TT210002]).