

## Product datasheet for PH303911

### AMPK beta 1 (PRKAB1) (NM\_006253) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	PRKAB1 MS Standard C13 and N15-labeled recombinant protein (NP_006244)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC203911
Predicted MW:	30.4 kDa
Protein Sequence:	>RC203911 protein sequence Red=Cloning site Green=Tags(s)

MGNTSSERAALERHGGHKTPRRDSSGGTKDGRPKILMDSPEADLFHSEEIKAPEKEEFLAWQHDLEVN  
DKAPAQARPTVFRWTGGGKEVYLSGSFNNWSKLP LTRSHNNFVAILD LPEGEHQYKFFVDGQWTHDPSEP  
IVTSQLGTVNIIQVKKTD FEVFDALMVDSQKCSVSELSSSPPGPYHQEPYVCKPEERFRAPPILP PHL  
LQVILNKDTGISC DPALLPEPNHVMLNHL YALS IKDGVMVLSATHRYKKKYVTTLLYKPI

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_006244</a>
RefSeq Size:	2412
RefSeq ORF:	810
Synonyms:	AMPK; HAMPKb
Locus ID:	5564
UniProt ID:	<a href="#">Q9Y478</a> , <a href="#">A0A024RBN1</a>



[View online »](#)

**Cytogenetics:** 12q24.23

**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]).