

#### OriGene Technologies, Inc.

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# Product datasheet for CF813121

## AMPK beta 1 (PRKAB1) Mouse Monoclonal Antibody [Clone ID: OTI8D5]

#### **Product data:**

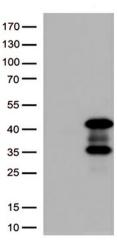
Product Type:	Primary Antibodies
Clone Name:	OTI8D5
Applications:	WB
Recommended Dilution:	WB 1:500
Reactivity:	Human, Rat, Monkey, Mouse
Host:	Mouse
lsotype:	lgG1
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 2-270 of human PRKAB1 (NP_006244) produced in E.coli.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	30.2 kDa
Gene Name:	protein kinase AMP-activated non-catalytic subunit beta 1
Database Link:	<u>NP_006244</u> <u>Entrez Gene 19079 MouseEntrez Gene 83803 RatEntrez Gene 695737 MonkeyEntrez Gene 5564 Human Q9Y478</u>



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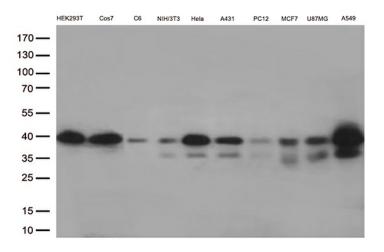
	AMPK beta 1 (PRKAB1) Mouse Monoclonal Antibody [Clone ID: OTI8D5] – CF813121
Background:	Non-catalytic subunit of AMP-activated protein kinase (AMPK), an energy sensor protein kinase that plays a key role in regulating cellular energy metabolism. In response to reduction of intracellular ATP levels, AMPK activates energy-producing pathways and inhibits energy- consuming processes: 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). [UniProtKB/Swiss-Prot Function]
Synonyms:	АМРК; НАМРКЬ
Protein Families:	Druggable Genome
Protein Pathways	<b>s:</b> Adipocytokine signaling pathway, Hypertrophic cardiomyopathy (HCM), Insulin signaling pathway

## **Product images:**



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY PRKAB1 (Cat# [RC203911], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PRKAB1 (Cat# [TA813121])(1:500).

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Western blot analysis of extracts (35ug) from 10 cell lines lysates by using anti-PRKAB1 monoclonal antibody (1:500).

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