

Recombinant Mouse Prkab1 Protein, Myc/DDK-tagged

Cat. No. Prkab1-5110M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length protein kinase, AMP-activated, beta 1 non-catalytic subunit (Prkab1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	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).
Molecular Mass	30.3 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and

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handling conditions. Avoid repeated freeze-thaw cycles.

Storage Store at -80 centigrade after receiving vials.

Concentration >50 µg/mL as determined by microplate BCA method

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name Prkab1 protein kinase, AMP-activated, beta 1 non-catalytic subunit [Mus musculus (house mouse)]

Official Symbol [Prkab1](#)

Synonyms PRKAB1; protein kinase, AMP-activated, beta 1 non-catalytic subunit; 5-AMP-activated protein kinase subunit beta-1; AMPKb; AMPK subunit beta-1; AU021155; E430008F22; 1300015D22Rik

Gene ID [19079](#)

mRNA Refseq [NM_031869](#)

Protein Refseq [NP_114075](#)

UniProt ID [Q9R078](#)

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