

Recombinant Human PRKAB2 Protein (Lys17-Lys260), His tagged

Cat. No. PRKAB2-5985H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PRKAB2 (Lys17-Lys260) fused with His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Lys17-Lys260
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).
Form	Lyophilized powder/frozen liquid
Molecular Mass	27.93 kDa

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Purity	> 90 % as determined by SDS-PAGE
Notes	For research use only.
Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt.
Storage Buffer	Supplied as solution form in PBS, pH 7.5 or lyophilized from PBS, pH 7.5.
Reconstitution	Reconstitute in sterile water for a stock solution.
Shipping	They are shipped out with dry ice/blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	PRKAB2 protein kinase, AMP-activated, beta 2 non-catalytic subunit [Homo sapiens (human)]
Official Symbol	PRKAB2
Synonyms	PRKAB2; protein kinase, AMP-activated, beta 2 non-catalytic subunit; 5-AMP-activated protein kinase subunit beta-2; AMPK beta 2; AMPK beta-2 chain; AMPK subunit beta-2; 5-AMP-activated protein kinase, beta-2 subunit; MGC61468;
Gene ID	5565
mRNA Refseq	NM_005399
Protein Refseq	NP_005390

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MIM	602741
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UniProt ID	O43741
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