Datasheet for ABIN7551818

PRKAB2 Protein (AA 1-272) (His tag)

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Overview

Quantity:	1 mg
Target:	PRKAB2
Protein Characteristics:	AA 1-272
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PRKAB2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat PRKAB2 Protein expressed in mammalien cells.
Sequence:	MGNTTSDRVS GERHGAKAAR SEGAGGHAPG KEHKIMVGST DDPSVFSLPD SKLPGDKEFV SWQQDLEDSV KPTQQARPTV IRWSEGGKEV FISGSFNNWS TKIPLIKSHN DFVAILDLPE GEHQYKFFVD GQWVHDPSEP VVTSQLGTIN NLIHVKKSDF EVFDALKLDS MESSETSCRD LSSSPPGPYG QEMYAFRSEE RFKSPPILPP HLLQVILNKD TNISCDPALL PEPNHVMLNH LYALSIKDSV MVLSATHRYK KKYVTTLLYK PI **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts.

Product Details

	• Protein expressed in mammalien cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • State-of-the-art algorithm used for plasmid design (Gene synthesis). This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein. If you are not interested in a full length protein, please contact us for individual protein fragments. The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	PRKAB2
Alternative Name:	PRKAB2 (PRKAB2 Products)
Background:	5'-AMP-activated protein kinase subunit beta-2 (AMPK subunit beta-2),FUNCTION: 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 Weight:	30.3 kDa
UniProt:	O43741
Pathways:	AMPK Signaling, Warburg Effect

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months