

Datasheet for ABIN7551917

PRKAG3 Protein (AA 1-489) (His tag)



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Quantity:	1 mg
Target:	PRKAG3
Protein Characteristics:	AA 1-489
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PRKAG3 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat PRKAG3 Protein expressed in mammalien cells.	
Sequence:	MEPGLEHALR RTPSWSSLGG SEHQEMSFLE QENSSSWPSP AVTSSSERIR GKRRAKALRW	
	TRQKSVEEGE PPGQGEGPRS RPAAESTGLE ATFPKTTPLA QADPAGVGTP PTGWDCLPSD	
	CTASAAGSST DDVELATEFP ATEAWECELE GLLEERPALC LSPQAPFPKL GWDDELRKPG	
	AQIYMRFMQE HTCYDAMATS SKLVIFDTML EIKKAFFALV ANGVRAAPLW DSKKQSFVGM	
	LTITDFILVL HRYYRSPLVQ IYEIEQHKIE TWREIYLQGC FKPLVSISPN DSLFEAVYTL IKNRIHRLPV	
	LDPVSGNVLH ILTHKRLLKF LHIFGSLLPR PSFLYRTIQD LGIGTFRDLA VVLETAPILT	
	ALDIFVDRRV SALPVVNECG QVVGLYSRFD VIHLAAQQTY NHLDMSVGEA LRQRTLCLEG	
	VLSCQPHESL GEVIDRIARE QVHRLVLVDE TQHLLGVVSL SDILQALVLS PAGIDALGA 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.
- · 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:

PRKAG3

Alternative Name:

PRKAG3 (PRKAG3 Products)

Background:

5'-AMP-activated protein kinase subunit gamma-3 (AMPK gamma3) (AMPK subunit gamma-3),FUNCTION: AMP/ATP-binding subunit of AMP-activated protein kinase (AMPK), an energy sensor protein kinase that plays a key role in regulating cellular energy metabolism (PubMed:14722619, PubMed:24563466, PubMed:17878938). 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. AMPK also acts as a regulator of cellular polarity by remodeling the actin cytoskeleton, probably by indirectly activating myosin. The AMPK gamma3 subunit is a non-catalytic subunit with a regulatory role in muscle energy metabolism (PubMed:17878938). It mediates binding to AMP, ADP and ATP, leading to AMPK activation or inhibition: AMP-binding results in allosteric activation of alpha catalytic subunit (PRKAA1 or PRKAA2) both by inducing phosphorylation and preventing

Target Details

Expiry Date:

12 months

	dephosphorylation of catalytic subunits. ADP also stimulates phosphorylation, without stimulating already phosphorylated catalytic subunit. ATP promotes dephosphorylation of catalytic subunit, rendering the AMPK enzyme inactive. {ECO:0000269 PubMed:14722619, ECO:0000269 PubMed:17878938, ECO:0000269 PubMed:24563466}.	
Molecular Weight:	r Weight: 54.3 kDa	
UniProt:	Q9UGI9	
Pathways:	AMPK Signaling, Cellular Glucan Metabolic Process, 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.	