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Datasheet for ABIN3135495 PKC iota Protein (AA 2-595) (His tag)

Image



Overview

Quantity:	1 mg
Target:	PKC iota (PRKCI)
Protein Characteristics:	AA 2-595
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PKC iota protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	PTQRDSSTMS HTVACGGGGD HSHQVRVKAY YRGDIMITHF EPSISFEGLC SEVRDMCSFD
	NEQPFTMKWI DEEGDPCTVS SQLELEEAFR LYELNKDSEL LIHVFPCVPE RPGMPCPGED
	KSIYRRGARR WRKLYCANGH TFQAKRFNRR AHCAICTDRI WGLGRQGYKC INCKLLVHKK
	CHKLVTIECG RHSLPPEPMM PMDQTMHPDH TQTVIPYNPS SHESLDQVGE EKEAMNTRES
	GKASSSLGLQ DFDLLRVIGR GSYAKVLLVR LKKTDRIYAM KVVKKELVND DEDIDWVQTE
	KHVFEQASNH PFLVGLHSCF QTESRLFFVI EYVNGGDLMF HMQRQRKLPE EHARFYSAEI
	SLALNYLHER GIIYRDLKLD NVLLDSEGHI KLTDYGMCKE GLRPGDTTST FCGTPNYIAP
	EILRGEDYGF SVDWWALGVL MFEMMAGRSP FDIVGSSDNP DQNTEDYLFQ VILEKQIRIP
	RSLSVKAASV LKSFLNKDPK ERLGCHPQTG FADIQGHPFF RNVDWDMMEQ KQVVPPFKPN
	ISGEFGLDNF DSQFTNEPVQ LTPDDDDIVR KIDQSEFEGF EYINPLLMSA EECV
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.

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 Made in Germany - from design to production - by highly experienced protein experts. Mouse Prkci Protein (raised in Insect Cells) purified by multi-step, protein-specific proce ensure crystallization grade. 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. Or experts in the lab will ensure that you receive a correctly folded protein. The big advantage of ordering our made-to-order proteins in comparison to ordering customade proteins from other companies is that there is no financial obligation in case the proceannot be expressed or purified. In the unlikely event that the protein cannot be expressed or purified we do not charge any (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expressive experiments or purification optimization). When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experience protein experts will do everything to make sure that you receive the protein you ordered.
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The concentration of our recombinant proteins is measured using the absorbance at 280r
The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.
The concentration of the protein is calculated using its specific absorption coefficient. We
the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification: Two step purification of proteins expressed in baculovirus infected SF9 insect cells:
 In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
 Protein containing fractions of the best purification are subjected to second purification through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity: >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility: 0.22 µm filtered
Endotoxin Level: Protein is endotoxin free.
Grade: Crystallography grade

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Target:	PKC iota (PRKCI)
Alternative Name:	Prkci (PRKCI Products)
Background:	Calcium- and diacylglycerol-independent serine/ threonine-protein kinase that plays a general
	protective role against apoptotic stimuli, is involved in NF-kappa-B activation, cell survival,
	differentiation and polarity, and contributes to the regulation of microtubule dynamics in the
	early secretory pathway. Is necessary for BCR-ABL oncogene-mediated resistance to apoptotic
	drug in leukemia cells, protecting leukemia cells against drug-induced apoptosis. In cultured
	neurons, prevents amyloid beta protein-induced apoptosis by interrupting cell death process at
	a very early step. In glioblastoma cells, may function downstream of phosphatidylinositol 3-
	kinase (PI3K) and PDPK1 in the promotion of cell survival by phosphorylating and inhibiting the
	pro-apoptotic factor BAD. Can form a protein complex in non-small cell lung cancer (NSCLC)
	cells with PARD6A and ECT2 and regulate ECT2 oncogenic activity by phosphorylation, which i
	turn promotes transformed growth and invasion. In response to nerve growth factor (NGF),
	acts downstream of SRC to phosphorylate and activate IRAK1, allowing the subsequent
	activation of NF-kappa-B and neuronal cell survival. Functions in the organization of the apical
	domain in epithelial cells by phosphorylating EZR. This step is crucial for activation and normal
	distribution of EZR at the early stages of intestinal epithelial cell differentiation. Forms a proteir
	complex with LLGL1 and PARD6B independently of PARD3 to regulate epithelial cell polarity.
	Plays a role in microtubule dynamics in the early secretory pathway through interaction with
	RAB2A and GAPDH and recruitment to vesicular tubular clusters (VTCs). In human coronary
	artery endothelial cells (HCAEC), is activated by saturated fatty acids and mediates lipid-
	induced apoptosis (By similarity). Downstream of PI3K is required for insulin-stimulated
	glucose transport. Activates RAB4A and promotes its association with KIF3A which is required
	for the insulin-induced SLC2A4/GLUT4 translocation in adipocytes. Is essential in early
	embryogenesis and development of differentiating photoreceptors by playing a role in the
	establishment of epithelial and neuronal polarity. {ECO:0000250,
	EC0:0000269 PubMed:12832475, EC0:0000269 PubMed:14615604,
	EC0:0000269 PubMed:15322187, EC0:0000269 PubMed:16267237,
	ECO:0000269 PubMed:9971737}.
Molecular Weight:	69.0 kDa Including tag.
UniProt:	Q62074
Pathways:	Neurotrophin Signaling Pathway, Cell-Cell Junction Organization, Tube Formation

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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 gurantee though.
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only
Handling	

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value 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:	Unlimited (if stored properly)

Images

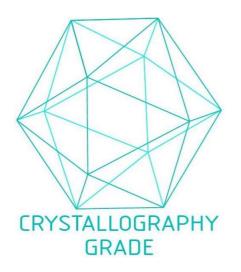


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

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