antibodies

Datasheet for ABIN3134605 GNB2L1 Protein (AA 1-317) (His tag)





Overview

Quantity:	1 mg
Target:	GNB2L1
Protein Characteristics:	AA 1-317
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GNB2L1 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS), Crystallization (Crys)

Product Details

Sequence:	MTEQMTLRGT LKGHNGWVTQ IATTPQFPDM ILSASRDKTI IMWKLTRDET NYGIPQRALR GHSHFVSDVV ISSDGQFALS GSWDGTLRLW DLTTGTTTRR FVGHTKDVLS VAFSSDNRQI VSGSRDKTIK LWNTLGVCKY TVQDESHSEW VSCVRFSPNS SNPIIVSCGW DKLVKVWNLA NCKLKTNHIG HTGYLNTVTV SPDGSLCASG GKDGQAMLWD LNEGKHLYTL DGGDIINALC FSPNRYWLCA ATGPSIKIWD LEGKIIVDEL KQEVISTSSK AEPPQCTSLA WSADGQTLFA GYTDNLVRVW QVTIGTR
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.
Characteristics:	 Made in Germany - from design to production - by highly experienced protein experts. Mouse Rack1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade. State-of-the-art algorithm used for plasmid design (Gene synthesis).

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Product Details	
	This protein is a made to order protein and will be made for the first time for your order. Our
	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 custom
	made proteins from other companies is that there is no financial obligation in case the protein
	cannot be expressed or purified.
	In the unlikely event that the protein cannot be expressed or purified we do not charge anything
	(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 expression
	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 experienced
	protein experts will do everything to make sure that you receive the protein you ordered.
	The concentration of our recombinant proteins is measured using the absorbance at 280nm.
	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 use
	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.
	2. Protein containing fractions of the best purification are subjected to second purification step 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
Target Details	
Target:	GNB2L1
Alternative Name:	Rack1 (GNB2L1 Products)

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Involved in the recruitment, assembly and/or regulation of a variety of signaling molecules.

Background:

	Interacts with a wide variety of proteins and plays a role in many cellular processes.
	Component of the 40S ribosomal subunit involved in translational repression. Binds to and
	stabilizes activated protein kinase C (PKC), increasing PKC-mediated phosphorylation. May
	recruit activated PKC to the ribosome, leading to phosphorylation of EIF6. Inhibits the activity of
	SRC kinases including SRC, LCK and YES1. Inhibits cell growth by prolonging the G0/G1 phase
	of the cell cycle. Enhances phosphorylation of BMAL1 by PRKCA and inhibits transcriptional
	activity of the BMAL1-CLOCK heterodimer. Facilitates ligand-independent nuclear translocation
	of AR following PKC activation, represses AR transactivation activity and is required for
	phosphorylation of AR by SRC. Modulates IGF1R-dependent integrin signaling and promotes
	cell spreading and contact with the extracellular matrix. Involved in PKC-dependent
	translocation of ADAM12 to the cell membrane. Promotes the ubiquitination and proteasome-
	mediated degradation of proteins such as CLEC1B and HIF1A. Required for VANGL2
	membrane localization, inhibits Wnt signaling, and regulates cellular polarization and oriented
	cell division during gastrulation. Required for PTK2/FAK1 phosphorylation and
	dephosphorylation. Regulates internalization of the muscarinic receptor CHRM2. Promotes
	apoptosis by increasing oligomerization of BAX and disrupting the interaction of BAX with the
	anti-apoptotic factor BCL2L. Inhibits TRPM6 channel activity. Regulates cell surface expression
	of some GPCRs such as TBXA2R. Plays a role in regulation of FLT1-mediated cell migration.
	Involved in the transport of ABCB4 from the Golgi to the apical bile canalicular membrane (By
	similarity). {ECO:0000250 UniProtKB:P63244, ECO:0000269 PubMed:18258429,
	ECO:0000269 PubMed:20093473, ECO:0000269 PubMed:7968370}.
Molecular Weight:	36.0 kDa Including tag.
UniProt:	P68040
Pathways:	cAMP Metabolic Process, Positive Regulation of Endopeptidase Activity
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

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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