

Datasheet for ABIN7563506

## GNB2L1 Protein (AA 1-317) (His tag)



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### Overview

Quantity:	1 mg
Target:	GNB2L1
Protein Characteristics:	AA 1-317
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GNB2L1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Purpose:	Custom-made recombinat Rack1 Protein expressed in mammalian cells.
Sequence:	<p>MTEQMTLRGT LKGHNGWVTQ IATTPQFPDM ILSASRDkti IMWKLTRDET NYGIPQRALR  GHSFVSDVV ISSDGQFALS GSWDGTLRLLW DLTTGTTTTR FVGHTKDVLS VAFSSDNRQI  VSGSRDKTIK LWNLTGVCKY TVQDESHSEW VSCVRFSPNS SNPIIVSCGW DKLVKVWNLA  NCKLKTNHIG HTGYLNTVTV SPDGSLCASG GKDGQAMLWD LNEGKHLYTL DGGDIINALC  FSPNRYWLCA ATGPSIKIWD LEGKIIVDEL KQEVISTSSK AEPPQCTSLA WSADGQTLFA  GYTDNLVRVW QVTIGTR <b>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.</b></p>
Characteristics:	<p>Key Benefits:</p> <ul style="list-style-type: none"> <li>Made to order protein - from design to production - by highly experienced protein experts.</li> </ul>

## Product Details

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- Protein expressed in mammalian 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

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Target:	GNB2L1
Alternative Name:	Rack1 ( <a href="#">GNB2L1 Products</a> )
Background:	<p>Small ribosomal subunit protein RACK1 (12-3) (Guanine nucleotide-binding protein subunit beta-2-like 1) (Receptor for activated C kinase) (Receptor of activated protein C kinase 1) (Receptor of activated protein kinase C 1) (p205) [Cleaved into: Small ribosomal subunit protein RACK1, N-terminally processed (Guanine nucleotide-binding protein subunit beta-2-like 1, N-terminally processed) (Receptor of activated protein C kinase 1, N-terminally processed)],FUNCTION: Scaffolding protein involved in the recruitment, assembly and/or regulation of a variety of signaling molecules (PubMed:7968370, PubMed:18258429, PubMed:20093473, PubMed:21262816, PubMed:33505023, PubMed:36517592). Interacts with a wide variety of proteins and plays a role in many cellular processes (PubMed:7968370, PubMed:18258429, PubMed:20093473, PubMed:21262816, PubMed:36517592). Component of the 40S ribosomal subunit involved in translational repression (PubMed:36517592). Involved in the initiation of the ribosome quality control (RQC), a pathway that takes place when a ribosome has stalled during translation, by promoting ubiquitination of a subset of 40S ribosomal subunits (By similarity). Binds to and stabilizes activated protein kinase C (PKC), increasing PKC-mediated phosphorylation (By similarity). May recruit activated PKC to the</p>

Target Details

ribosome, leading to phosphorylation of EIF6 (By similarity). Inhibits the activity of SRC kinases including SRC, LCK and YES1 (By similarity). Inhibits cell growth by prolonging the G0/G1 phase of the cell cycle (By similarity). Enhances phosphorylation of BMAL1 by PRKCA and inhibits transcriptional activity of the BMAL1-CLOCK heterodimer (PubMed:20093473). Facilitates ligand-independent nuclear translocation of AR following PKC activation, represses AR transactivation activity and is required for phosphorylation of AR by SRC (By similarity). Modulates IGF1R-dependent integrin signaling and promotes cell spreading and contact with the extracellular matrix (By similarity). Involved in PKC-dependent translocation of ADAM12 to the cell membrane (By similarity). Promotes the ubiquitination and proteasome-mediated degradation of proteins such as CLEC1B and HIF1A (By similarity). Required for VANGL2 membrane localization, inhibits Wnt signaling, and regulates cellular polarization and oriented cell division during gastrulation (PubMed:21262816). Required for PTK2/FAK1 phosphorylation and dephosphorylation (By similarity). Regulates internalization of the muscarinic receptor CHRM2 (By similarity). Promotes apoptosis by increasing oligomerization of BAX and disrupting the interaction of BAX with the anti-apoptotic factor BCL2L (By similarity). Inhibits TRPM6 channel activity (PubMed:18258429). Regulates cell surface expression of some GPCRs such as TBXA2R (By similarity). Plays a role in regulation of FLT1-mediated cell migration (By similarity). Involved in the transport of ABCB4 from the Golgi to the apical bile canalicular membrane (By similarity). Acts as an adapter for the dephosphorylation and inactivation of AKT1 by promoting recruitment of PP2A phosphatase to AKT1 (PubMed:33505023). {ECO:0000250|UniProtKB:P63244, ECO:0000269|PubMed:18258429, ECO:0000269|PubMed:20093473, ECO:0000269|PubMed:21262816, ECO:0000269|PubMed:33505023, ECO:0000269|PubMed:36517592, ECO:0000269|PubMed:7968370}.

Molecular Weight: 35.1 kDa

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 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