

Datasheet for ABIN7564145
PPP1R9B Protein (AA 1-817) (His tag)



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Overview

Quantity:	1 mg
Target:	PPP1R9B
Protein Characteristics:	AA 1-817
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PPP1R9B protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat Ppp1r9b Protein expressed in mammalien cells.
Sequence:	MMKTEPRGPG GPLRSASPHR SAYEAGIQAL KPPDAPGPDE APKAAHHKKY GSNVHRIKSM FLQMGTTAGP PGEAGGGAGM AEAPRASDRG VRLSLPRASS LNENVDHSA LKLGTSVSR VSRFDSKPAP SAQPAPPPHP PSRLQETRKL FERSVPAASG GDKEAVARRL LRQERAGLQD RKLDVVVRFN GSTEALDKLD ADAVSPTVSQ LSAVFEKADS RTGLHRAPGP PRAAGAPQVN SKLVTKRSRV FQPPPPPPAP SGDGATEKER GPGGQQPPQH RVAPARPPPK PREVRKIKPV EVEESGESEA ESAPGEVIQA EVTVHAALLEN GSTPATTASP APEEPKAEAV PEEEEAAASVA TLERGVNDR APDMAPEEVD ESKKEDFSEA DLVDVSAYSG LGEDSGGSAL EEDDEEDEED GEPPEPESG CVEIPGLSEE EDPAPSRKIH FSTAPIQVFS TYSNEDYDRR NEDVDPMAAS AEYELEKRVE RLELFPVELE KDSEGLGISI IGMGAGADMG LEKLGIFVKT VTEGGAHRD GRIQVNDLLV EVDGTSLVGV TQSF AASVLR NTKGRVRFMI GRERPGEQSE VAQLIQQTLE QERWQREMME QRYAQYGEDD EETGEYATDE DEELSPTFPG GEMAIIEVFEL AENEDALSPV

Product Details

EMEPEKLVHK FKELQIKHAV TEAEIQQLKR KLSLEQEKGRWRVEKAQLE QSVEENKERM
EKLEGYWGEA QSLCQAVDEH LRETQAQYQA LERKYSKAKR LIKDYQQKEI EFLKKETAQR
RVLEESELAR KEEMDKLLDK ISELEGNLQT LRNSNST **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 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

Target:

PPP1R9B

Alternative Name:

Ppp1r9b ([PPP1R9B Products](#))

Background:

Neurabin-2 (Neurabin-II) (Protein phosphatase 1 regulatory subunit 9B) (Spinophilin),FUNCTION: Seems to act as a scaffold protein in multiple signaling pathways. Modulates excitatory synaptic transmission and dendritic spine morphology. Binds to actin filaments (F-actin) and shows cross-linking activity. Binds along the sides of the F-actin. May play an important role in linking the actin cytoskeleton to the plasma membrane at the synaptic junction. Believed to target protein phosphatase 1/PP1 to dendritic spines, which are rich in F-actin, and regulates its specificity toward ion channels and other substrates, such as AMPA-

Target Details

type and NMDA-type glutamate receptors. Plays a role in regulation of G-protein coupled receptor signaling, including dopamine D2 receptors and alpha-adrenergic receptors. May establish a signaling complex for dopaminergic neurotransmission through D2 receptors by linking receptors downstream signaling molecules and the actin cytoskeleton. Binds to ADRA1B and RGS2 and mediates regulation of ADRA1B signaling. May confer to Rac signaling specificity by binding to both, RacGEFs and Rac effector proteins. Probably regulates p70 S6 kinase activity by forming a complex with TIAM1. Required for hepatocyte growth factor (HGF)-induced cell migration (By similarity). {ECO:0000250}.

Molecular Weight: 89.5 kDa

UniProt: [Q6R891](#)

Pathways: [Regulation of G-Protein Coupled Receptor Protein Signaling](#)

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