

Datasheet for ABIN7563787

PHACTR4 Protein (AA 1-694) (His tag)



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Overview

Quantity:	1 mg
Target:	PHACTR4
Protein Characteristics:	AA 1-694
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PHACTR4 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Phactr4 Protein expressed in mammalien cells.
Sequence:	<p>MEDPSEEAQ PSGDPGMGMD SVEAGDTTPP TKRKSKFSAL GKIFKPWKWR KKKSSDKFKE</p> <p>TSEVLERKIS MRKPREELVK RGVLLLEDPEQ DGEDSGKLSH AALKNGHTTP IGSARSSSPV</p> <p>LVEEPEPERSL RNLTPEEESK KRLGSTGSQP NSEAEPGPEH APKQPLLPPK RPLSSSCEAK</p> <p>EVPAGSTARS VSSTSGSTTV TSAATTAATD MTKTVKSFVG PTPAPAPAPR TLPAAPASAN</p> <p>TAATTTAPAK QPPIPPPKPA QRNSNPPIAE LSQAMNSGTV LSKPSPPLPP KRGIPSTSIP</p> <p>SLEPAASF TT KTANDQREKT VSLCLEPPLI IPPSSPSPPL PTHIPPEPPR SPLVPAKTFQ</p> <p>IVPEVEFSSS SDFQDISQQ EDQKTEVPKK IQDQSFGE SH IPSRLPPLPL HIRIQQALTS</p> <p>PLPVTTPLEG THRAHSLLE NSDSFSED TG TLGRTRSLPI TIEMLKVPDD EEEEQTCPFV</p> <p>EDVTSTSATP SLPLCLREEE KESDSDSEGP IKYRDEEEDD DDDESHQSAL ANRVKRKDTL</p> <p>AMKLSSRPSE PETNLNSWPR KSKEEWNEIR HQIGNTLIRR LSQRPTAEEL EQRNILQPKN</p> <p>EADRQAEKRE IKRRLTRKLS QRPTVAELLA RKILRFNEYV EVTDAHDYDR RADKPWTKLT</p>

PADKAAIRKE LNEFKSSEME VHVDSKHFTR YHRP **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:	<p>Key Benefits:</p> <ul style="list-style-type: none">• 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). <p>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.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>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.</p>
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	PHACTR4
Alternative Name:	Phactr4 (PHACTR4 Products)
Background:	Phosphatase and actin regulator 4 (Protein Humpty dumpty) (Humdy),FUNCTION: Regulator of protein phosphatase 1 (PP1) required for neural tube and optic fissure closure, and enteric neural crest cell (ENCCs) migration during development. Acts as an activator of PP1 by interacting with PPP1CA and preventing phosphorylation of PPP1CA at 'Thr-320'. During neural tube closure, localizes to the ventral neural tube and activates PP1, leading to down-regulate cell proliferation within cranial neural tissue and the neural retina. Also acts as a regulator of migration of enteric neural crest cells (ENCCs) by activating PP1, leading to dephosphorylation and subsequent activation of cofilin (COF1 or COF2) and repression of the integrin signaling through the RHO/ROCK pathway. {ECO:0000269 PubMed:17609112,

Target Details

	ECO:0000269 PubMed:22215812}.
Molecular Weight:	76.6 kDa
UniProt:	Q501J7
Pathways:	Tube Formation

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