Datasheet for ABIN7564827

SRGAP2 Protein (AA 1-1071) (His tag)

Go to Product page

Overview

Quantity:	1 mg
Target:	SRGAP2
Protein Characteristics:	AA 1-1071
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SRGAP2 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat Srgap2 Protein expressed in mammalien cells.
Sequence:	MTSPAKFKKD KEIIAEYDTQ VKEIRAQLTE QMKCLDQQCE LRVQLLQDLQ DFFRKKAEIE MDYSRNLEKL AERFLAKTRS TKDQQFKKDQ NVLSPVNCWN LLLNQVKRES RDHTTLSDIY LNNIIPRFVQ VSEDSGRLFK KSKEVGQQLQ DDLMKVLNEL YSVMKTYHMY NADSISAQSK LKEAEKQEEK QIGKSVKQED RQTPRSPDST ANVRIEEKHV RRSSVKKIEK MKEKRQAKYT ENKLKAIKAR NEYLLALEAT NASVFKYYIH DLSDIIDQCC DLGYHASLNR ALRTFLSAEL NLEQSKHEGL DAIENAVENL DATSDKQRLM EMYNNVFCPP MKFEFQPHMG DMASQLCAQQ PVQSELVQRC QQLQSRLSTL KIENEEVKKT MEATLQTIQD IVTVEDFDVS DCFQYSNSME SVKSTVSETF MSKPSIAKRR ANQQETEQFY FTKMKEYLEG RNLITKLQAK HDLLQKTLGE SQRTDCSLAR RSSTVRKQDS SQAIPLVVES CIRFISRHGL QHEGIFRVSG SQVEVNDIKN AFERGEDPLA GDQNDHDMDS IAGVLKLYFR GLEHPLFPKD IFHDLIACVT MDNLQERAVH IRKVLLVLPK PTLIIMRYLF AFLNHLSQFS EENMMDPYNL AICFGPSLMS VPEGHDQVSC

Product Details

	QAHVNELIKT IIIQHENIFP NPRELEGPIY SRGGSMEDYC DSTHGETTSA EDSTQDVTAE HHTSDDECEP IEAIAKFDYV GRTARELSFK KGASLLLYQR ASDDWWEGRH NGIDGLIPHQ YIVVQDTEDG VVERSSPKSE IEVMSEPPEE KVTARTGASC PSGGHVADIY LANINKQRKR PESGSIRKAF RSDSHGLGSS LTDSSSLGVG ASCRPSSQPI MSQNLPKEGP DKCSISGHGS LNSISRHSSL KNRMDSPQIR KTATAGRSKS FNNHRPMDPE VIAQDIEATM NSALNELQEL ERQSSAKHTP DVVLDTLEPL KTSPVVAPTS EPSSPLHTQL LKDPEPAFQR SASTAGDIAC AFRPVKSVKM AAPVKPPATR PKPTVFPKTN ATSPGVNSSA SPQATDKSCT V **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 mammalien 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:	SRGAP2
Alternative Name:	Srgap2 (SRGAP2 Products)
Background:	SLIT-ROBO Rho GTPase-activating protein 2 (srGAP2) (Formin-binding protein 2) (Formin-binding protein 27) (FBP-27),FUNCTION: Postsynaptic RAC1 GTPase activating protein (GAP) that plays a key role in neuronal morphogenesis and migration mainly during development of

Target Details

	the cerebral cortex (PubMed:19737524, PubMed:22559944, PubMed:27373832). Regulates excitatory and inhibitory synapse maturation and density in cortical pyramidal neurons (PubMed:19737524, PubMed:22559944, PubMed:27373832). SRGAP2/SRGAP2A limits excitatory and inhibitory synapse density through its RAC1-specific GTPase activating activity, while it promotes maturation of both excitatory and inhibitory synapses through its ability to bind to the postsynaptic scaffolding protein HOMER1 at excitatory synapses, and the postsynaptic protein GPHN at inhibitory synapses (PubMed:27373832). Mechanistically, acts by binding and deforming membranes, thereby regulating actin dynamics to regulate cell migration and differentiation (PubMed:19737524, PubMed:22559944, PubMed:26439400). Promotes cell repulsion and contact inhibition of locomotion: localizes to protrusions with curved edges and controls the duration of RAC1 activity in contact protrusions (PubMed:26439400). In non-neuronal cells, may also play a role in cell migration by regulating the formation of lamellipodia and filopodia (PubMed:22559944). {ECO:0000269|PubMed:19737524, ECO:0000269|PubMed:22559944, ECO:0000269|PubMed:26439400, ECO:0000269|PubMed:27373832}.
Molecular Weight:	120.8 kDa
UniProt:	Q91Z67

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