Datasheet for ABIN7555282

RAPGEF3 Protein (AA 1-923) (His tag)

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Overview

Quantity:	1 mg
Target:	RAPGEF3
Protein Characteristics:	AA 1-923
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RAPGEF3 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat RAPGEF3 Protein expressed in mammalien cells.
Sequence:	MKVGWPGESC WQVGLAVEDS PALGAPRVGA LPDVVPEGTL LNMVLRRMHR PRSCSYQLLL EHQRPSCIQG LRWTPLTNSE ESLDFSESLE QASTERVLRA GRQLHRHLLA TCPNLIRDRK YHLRLYRQCC SGRELVDGIL ALGLGVHSRS QVVGICQVLL DEGALCHVKH DWAFQDRDAQ FYRFPGPEPE PVRTHEMEEE LAEAVALLSQ RGPDALLTVA LRKPPGQRTD EELDLIFEEL LHIKAVAHLS NSVKRELAAV LLFEPHSKAG TVLFSQGDKG TSWYIIWKGS VNVVTHGKGL VTTLHEGDDF GQLALVNDAP RAATIILRED NCHFLRVDKQ DFNRIIKDVE AKTMRLEEHG KVVLVLERAS QGAGPSRPPT PGRNRYTVMS GTPEKILELL LEAMGPDSSA HDPTETFLSD FLLTHRVFMP SAQLCAALLH HFHVEPAGGS EQERSTYVCN KRQQILRLVS QWVALYGSML HTDPVATSFL QKLSDLVGRD TRLSNLLREQ WPERRRCHRL ENGCGNASPQ MKARNLPVWL PNQDEPLPGS SCAIQVGDKV PYDICRPDHS VLTLQLPVTA SVREVMAALA QEDGWTKGQV LVKVNSAGDA IGLQPDARGV ATSLGLNERL FVVNPQEVHE LIPHPDQLGP TVGSAEGLDL

Product Details

	VSAKDLAGQL TDHDWSLFNS IHQVELIHYV LGPQHLRDVT TANLERFMRR FNELQYWVAT ELCLCPVPGP RAQLLRKFIK LAAHLKEQKN LNSFFAVMFG LSNSAISRLA HTWERLPHKV RKLYSALERL LDPSWNHRVY RLALAKLSPP VIPFMPLLLK DMTFIHEGNH TLVENLINFE KMRMMARAAR MLHHCRSHNP VPLSPLRSRV SHLHEDSQVA RISTCSEQSL STRSPASTWA YVQQLKVIDN QRELSRLSRE LEP **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:	RAPGEF3
Alternative Name:	RAPGEF3 (RAPGEF3 Products)
Background:	Rap guanine nucleotide exchange factor 3 (Exchange factor directly activated by cAMP 1) (Exchange protein directly activated by cAMP 1) (EPAC 1) (Rap1 guanine-nucleotide-exchange factor directly activated by cAMP) (cAMP-regulated guanine nucleotide exchange factor I) (cAMP-GEFI),FUNCTION: Guanine nucleotide exchange factor (GEF) for RAP1A and RAP2A small GTPases that is activated by binding cAMP. Through simultaneous binding of PDE3B to RAPGEF3 and PIK3R6 is assembled in a signaling complex in which it activates the PI3K

Target Details

	gamma complex and which is involved in angiogenesis. Plays a role in the modulation of the cAMP-induced dynamic control of endothelial barrier function through a pathway that is independent on Rho-mediated signaling. Required for the actin rearrangement at cell-cell junctions, such as stress fibers and junctional actin. {ECO:0000269|PubMed:10777494, ECO:0000269|PubMed:21840392, ECO:0000269|PubMed:9853756}.
Molecular Weight:	103.8 kDa
UniProt:	O95398
Pathways:	cAMP Metabolic Process

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