Datasheet for ABIN7564799

FIG4 Protein (AA 1-907) (His tag)

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Overview

Quantity:	1 mg
Target:	FIG4
Protein Characteristics:	AA 1-907
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FIG4 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Fig4 Protein expressed in mammalien cells.
Sequence:	MPTAAAPIIS SVQKLVLYET RARYFLVGSN HAETKYRVLK IDRTEPKDLV VIDDRHVYTQ QEVRELLGRL DLGNRTKMSQ KGSSGLFRAV SAFGVVGFVR FLEGYYIVLI TKRRKMADIG GHAIYKIEDT SMIYIPNDSV RISHPDEARY LRIFQNVDLS SNFYFSYSYD LSHSLQYNLT VLRMPLEMLK SETSKACQES FDIFEDEGLI TQGGSGVFGI SSEPYMKYVW NGELLDIIKN TVHRDWLLYI IHGFCGQSKL LIYGRPVYVT LIARRSSRFA GTRFLKRGAN CEGDVANEVE TEQILCDASV MSFTAGSYSS YVQVRGSVPL FWSQDISTMM PKPPITLDQA DPFAHVAALH FDQMLQRFGS PIIILNLVKE REKRKHERIL SEELVAAVTY LNQFLPPEHT IVYIPWDMAK YTKSKLCNVL DRLNVIAESV VKKTGFFVNR PDSYCSILRP DEKWNELGGH VIPTGRLQTG ILRTNCVDCL DRTNTAQFMV GKCALAYQLY SLGLIDKPNL QFDTDAVRLF EELYEDHGDT LSLQYGGSQL VHRVKTYRKI APWTQHSKDI MQTLSRYYSN AFSDADRQDS INLFLGVFHP TEGKPHLWEL PTDFYLHHKN TMSLLPPRRS YTYWWTPEVV KHLPLPYDEV ICAANLKKLM

Product Details

	VKKFHRWEEE IDIHNEFFRP YELSSFDDTF CLAMTSSARD FMPKTVGIDP SPFTVRKPDE TGKSVLGNKN TREEAVLQRK TAASAPPPPS EEAVSSSSED DSGTDREDEG SISQRSTPVK MTDTGDSAKA TENVVQPMKE VYGVSLSSSL SEEDHSIYAR FVQLGQSQHK QDRGNQQLCS RCSDGVIKLT PISAFSQDNI YEVQPPRVDR KSTEIFQAHI QASQGIMQPL GKEDTAMYRE YIRNRYL **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:	FIG4
Alternative Name:	Fig4 (FIG4 Products)
Background:	Polyphosphoinositide phosphatase (EC 3.1.3.-) (EC 3.1.3.36) (EC 3.1.3.86) (Phosphatidylinositol 3,5-bisphosphate 5-phosphatase) (SAC domain-containing protein 3) (Serine-protein phosphatase FIG4) (EC 3.1.3.16),FUNCTION: The PI(3,5)P2 regulatory complex regulates both the synthesis and turnover of phosphatidylinositol 3,5-bisphosphate (PtdIns(3,5)P2). In vitro, hydrolyzes all three D5-phosphorylated polyphosphoinositide substrates in the order PtdIns(4,5)P2 > PtdIns(3,5)P2 > PtdIns(3,4,5)P3. Plays a role in the biogenesis of endosome

Target Details

	carrier vesicles (ECV) / multivesicular bodies (MVB) transport intermediates from early endosomes. {ECO:0000269|PubMed:17572665, ECO:0000269|PubMed:19037259}., FUNCTION: Dual specificity phosphatase component of the PI(3,5)P2 regulatory complex which regulates both the synthesis and turnover of phosphatidylinositol 3,5-bisphosphate (PtdIns(3,5)P2). Catalyzes the dephosphorylation of phosphatidylinositol 3,5-bisphosphate (PtdIns(3,5)P2) to form phosphatidylinositol 3-phosphate. Has serine-protein phosphatase activity acting on PIKfyve to stimulate its lipid kinase activity, its catalytically activity being required for maximal PI(3,5)P2 production. In vitro, hydrolyzes all three D5-phosphorylated polyphosphoinositide and although displaying preferences for PtdIns(3,5)P2, it is capable of hydrolyzing PtdIns(3,4,5)P3 and PtdIns(4,5)P2, at least in vitro. {ECO:0000250|UniProtKB:Q92562, ECO:0000269|PubMed:17572665, ECO:0000269|PubMed:19037259}.
Molecular Weight:	103.4 kDa
UniProt:	Q91WF7
Pathways:	Inositol 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