Datasheet for ABIN7555154

RAB11FIP3 Protein (AA 1-756) (His tag)

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Overview

Quantity:	1 mg
Target:	RAB11FIP3
Protein Characteristics:	AA 1-756
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RAB11FIP3 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant RAB11FIP3 Protein expressed in mammalian cells.
Sequence:	MASAPPASPP GSEPPGPDPE PGGPDGPGAA QLAPGPAELR LGAPVGGPDP QSPGLDEPAP GAAADGGARW SAGPAPGLEG GPRDPGPSAP PPRSGPRGQL ASPDAPGPGP RSEAPLPELD PLFSWTEEPE ECGPASCPES APFRLQGSSS SHRARGEVDV FSPFPAPTAG ELALEQGPGS PPQPSDLSQT HPLPSEPVGS QEDGPRLRAV FDALDGDGDG FVRIEDFIQF ATVYGAEQVK DLTKYLDPSG LGVISFEDFY QGITAIRNGD PDGQCYGGVA SAQDEEPLAC PDEFDDFVTY EANEVTDSAY MGSESTYSEC ETFTDEDTST LVHPELQPEG DADSAGGSAV PSECLDAMEE PDHGALLLLP GRPHPHGQSV ITVIGGEEHF EDYGEGSEAE LSPETLCNGQ LGCSDPAFLT PSPTKRLSSK KVARYLHQSG ALTMEALEDP SPELMEGPEE DIADKVVFLE RRVLELEKDT AATGEQHSRL RQENLQLVHR ANALEEQLKE QELRACEMVL EETRRQKELL CKMEREKSIE IENLQTRLQQ LDEENSELRS CTPCLKANIE RLEEEKQKLL DEIESLTLRL SEEQENKRRM GDRLSHERHQ FQRDKEATQE LIEDLRKQLE HLQLLKLEAE QRRGRSSSMG LQEYHSRARE SELEQEVRRL KQDNRNLKEQ NEELNGQIIT LSIQGAKSLF STAFSESLAA EISSVSRDEL

Product Details

	MEAIQKQEEI NFRLQDYIDR IIVAIMETNP SILEVK **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.**
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	RAB11FIP3
Alternative Name:	RAB11FIP3 (RAB11FIP3 Products)
Background:	Rab11 family-interacting protein 3 (FIP3) (FIP3-Rab11) (Rab11-FIP3) (Arfophilin-1) (EF hands-containing Rab-interacting protein) (Eferin) (MU-MB-17.148),FUNCTION: Downstream effector molecule for Rab11 GTPase which is involved in endocytic trafficking, cytokinesis and intracellular ciliogenesis by participating in membrane delivery (PubMed:16148947, PubMed:15601896, PubMed:17628206, PubMed:17394487, PubMed:18511905, PubMed:19327867, PubMed:20026645, PubMed:25673879, PubMed:26258637, PubMed:31204173). Recruited by Rab11 to endosomes where it links Rab11 to dynein motor

Target Details

	complex (PubMed:20026645). The functional Rab11-RAB11FIP3-dynein complex regulates the movement of peripheral sorting endosomes (SE) along microtubule tracks toward the microtubule organizing center/centrosome, generating the endocytic recycling compartment (ERC) during interphase of cell cycle (PubMed:17394487, PubMed:20026645). Facilitates the interaction between dynein and dynactin and activates dynein processivity (PubMed:25035494). Binding with ASAP1 is needed to regulate the pericentrosomal localization of recycling endosomes (By similarity). The Rab11-RAB11FIP3 complex is also implicated in the transport during telophase of vesicles derived from recycling endosomes to the cleavage furrow via centrosome-anchored microtubules, where the vesicles function to deliver membrane during late cytokinesis and abscission (PubMed:16148947, PubMed:15601896). The recruitment of Rab11-RAB11FIP3-containing endosomes to the cleavage furrow and tethering to the midbody is co-mediated by RAB11FIP3 interaction with ARF6-exocyst and RACGAP1-MKLP1 tethering complexes (PubMed:17628206, PubMed:18511905). Also involved in the Rab11-Rabin8-Rab8 ciliogenesis cascade by facilitating the orderly assembly of a ciliary targeting complex containing Rab11, ASAP1, Rabin8/RAB3IP, RAB11FIP3 and ARF4, which directs preciliary vesicle trafficking to mother centriole and ciliogenesis initiation (PubMed:26258637, PubMed:31204173). Also promotes the activity of Rab11 and ASAP1 in the ARF4-dependent Golgi-to-cilia transport of the sensory receptor rhodopsin (PubMed:25673879). Competes with WDR44 for binding to Rab11, which controls intracellular ciliogenesis pathway (PubMed:31204173). May play a role in breast cancer cell motility by regulating actin cytoskeleton (PubMed:19327867). {ECO:0000250|UniProtKB:Q8CHD8, ECO:0000269|PubMed:15601896, ECO:0000269|PubMed:16148947, ECO:0000269|PubMed:17394487, ECO:0000269|PubMed:17628206, ECO:0000269|PubMed:18511905, ECO:0000269|PubMed:19327867, ECO:0000269|PubMed:20026645, ECO:0000269|PubMed:25035494, ECO:0000269|PubMed:25673879, ECO:0000269|PubMed:26258637, ECO:0000269|PubMed:31204173}.
Molecular Weight:	82.4 kDa
UniProt:	O75154

Application Details

Application Notes:	We expect the protein to work for functional studies. 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