Datasheet for ABIN7564582

RAB11FIP3 Protein (AA 1-1047) (His tag)

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Overview

Quantity:	1 mg
Target:	RAB11FIP3
Protein Characteristics:	AA 1-1047
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RAB11FIP3 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat Rab11fip3 Protein expressed in mammalien cells.
Sequence:	MELCQPTSLS DHDQPASGPQ RGVMGLVGPD APRGWSEEPE EHAQLQRWPE GPNAPICWPE EVEEPHAPSR WAKEPNAPRC SSQEPDESCH LAEELEESDS PRCWPQEPDT PCHLAKELEE PDAPRCLPQE PDTPCYLAKE LEEPNIPRCW PQEPDVPCHL AKELEEPDAP RCWPQEPDAF CHLLKEVEEP DALRCWLQGP DAPCHLAKEL EDLDSPRCWP QEPDESCHLA KELEEPDAPC HLAKELEEPD APRCWPQEPD VPCLLAKKWE ESDAPCLLTE ELEEPDALHC WPQESEAPCL LAKELEEPDA SHSCPQEADT GCLSAKEPEE PDVSHLWQGV PDAPCLLVKE PEEADALHCC WPEESEEPDA LNPPCFWANE PDEPDPSRCW SEEPQVLCLW PEEQNTKRCW QEEPDAPCFW PEDREEPIVS CLQFKEPEKP KVRSSWPEEL EDCCPTRGLP LEPLLADGEL LQACPGPPSD PGPALSLPSE PGTAQEEGAR LRAVFDALDR DGDGFVRIED FIQFATVYGA EQVKDLTQYL DPSGLGVISF EDFYQGIVAI RNGDPDGQLY SVEPVQDEET PACADEFDDF VTYEANEVTD SAYMGSESTY SECETFTDED TSTLVHPELQ PEGDVDSAGG SGVPSECLDT MEEPDHGALL

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Product Details

	LLPGRSRPHS QAVVMVIGSE EHFEDYGEGN EAELSPETLC DGDGEDPAFL TPSPAKRLSS RKVARYLHQS GTLTMEALED PPPEPVECPE EDIADKVIFL ERRVSELEKD SAAAGEQHGR LRQENLQLVH RANALEEQLK EQEFRAQEKV LEETRKQKEL LCKMEREKSI EIENLQARLQ QLDEENSELR SCTPCLKANI ERLEEEKQKM LDEIEELTQR LSEEQENKRK MGDRLSHERH QFQRDKEATQ ELIEDLRKQL EHLQLLRLEV EQRRGRSSSL GLQEYNSRAR ESELEQEVRR LKQDNRNLKE QNDELNGQII TLSIQGAKSL FSTSFSESLA AEISSVSRDE LMEAIQKQEE INFRLQDYID RIIVAILETN PSILEVK **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:	RAB11FIP3
Alternative Name:	Rab11fip3 (RAB11FIP3 Products)
Background:	Rab11 family-interacting protein 3 (FIP3) (FIP3-Rab11) (Rab11-FIP3),FUNCTION: Downstream effector molecule for Rab11 GTPase which is involved in endocytic trafficking, cytokinesis and intracellular ciliogenesis by participating in membrane delivery (PubMed:18685082). Recruited by Rab11 to endosomes where it links Rab11 to dynein motor complex. The functional Rab11-

Target Details

	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. Facilitates the interaction between dynein and dynactin and activates dynein processivity (By similarity). Binding with ASAP1 is needed to regulate the pericentrosomal localization of recycling endosomes (PubMed:18685082). 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. 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. 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. Also promotes the activity of Rab11 and ASAP1 in the ARF4-dependent Golgi-to-cilia transport of the sensory receptor rhodopsin. Competes with WDR44 for binding to Rab11, which controls intracellular ciliogenesis pathway. May play a role in breast cancer cell motility by regulating actin cytoskeleton (By similarity). {ECO:0000250|UniProtKB:O75154, ECO:0000269|PubMed:18685082}.
Molecular Weight:	118.5 kDa
UniProt:	Q8CHD8

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

Handling

Storage Comment:	Store at -80°C.
Expiry Date:	12 months

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