Datasheet for ABIN3094939

RAB11FIP3 Protein (AA 1-756) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	RAB11FIP3
Protein Characteristics:	AA 1-756
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RAB11FIP3 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
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 MEAIQKQEEI NFRLQDYIDR IIVAIMETNP SILEVK

Sequence without tag. The proposed Strep-Tag is based on experience s 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 in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:

One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).

Product Details

Purity:	> 70-80 % as determined by SDS PAGE, 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 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,

Target Details

	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:	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.
Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications. During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.

Handling

Expiry Date:	12 months