Datasheet for ABIN3136232

RAB3GAP2 Protein (AA 1-1366) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	RAB3GAP2
Protein Characteristics:	AA 1-1366
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RAB3GAP2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MACSIVQFCS FQDLQSARDF LFPHLREETP GALKRDPSKT SSWEDDSWGA WEETEPREPE EEGNTSKTQK NSWLQECVLS LSPTSDLMVI AREQKAAFLV RKWKHGDKGK EEMQFAVGWS GSVSAEEGEY VTSALCIPLA SQKRSSTGRP DWTCIVVGFT SGYVRFYTEG VLLLAQLLNE DKVLQLKCRT YEIPRHPGVT EQNEELSILY PAAIVTIDGF SLFQSLRACR NQVAKAAASG NENIQPPPLA YKKWGLQDID TIIDHASVGI MTLSPFDQMK TASNIGGFNA AIKNSPPAMS QYITVGSSPF TGFFYALEGS TQPLLSHVAL AVASKLTSAL FSAASGWLGW KSKHEEDTVQ KQKPKMEPAT PLAVRFGLPD SRRHGESICL SPCNTLAAVT DDFGRVILLD VARGIAIRMW KGYRDAQVGW IQIVEDLHER VPEKGGFSPF GNTQGPSRVA QFLVIYAPRR GILEVWNTQQ GPRVGAFNVG KHCRLLYPGY KIMGLNNVTS QSWQPQTYQI CLVDPVSASV KAVNVPFHLA LSDKKSERAK DLHLVKKLSA LLRAKSPRPD SFETEIKELI LDIKYPATKK QALESILASD RLSFSCLRNV TQTLMDTLKN QELESVDEGL LQFCASKLKL LHLYESVSQL NTLDFHSDTP

FSDNDLAVLL RLDDKELLKL RALLEKYKQE NTKATVRFSE DADRVLPVKT FLEYLEYEKD ALSIRKIGEE ECVALGSFFF WKCLHGKSST EEMCHSLESA GLSPQQLLSL LLSVWLSKEK DILDKPQSVC CLHTMLSLLS KMKVAIDETW DSQSVSPWWQ QMRMACIQSE NSGAALLSAH VGHSVAAQMS SGATDKKFSQ MELDADAEAL TDSWEALSLD TEYWKLLLRQ LEDCLILQTL LHSKLSPPAA KAPSLQSEPL PRLSVKKLLE GGKGGIADSV AKWIFKQDLS PELLKCANKE RDVENPDEPR EDLLHLAYEQ FPCSLELDVL HAHCCWEYVV QWNKDPEEAR FLVRSIEHLK QILNPHVQNG IALMMWNTFL VKRFSAATYL MDKVGKSPKD RLCRRDVGMS DTALTSFLGS CLELLQTSLE ADISRDEVQV PVLDTEDAWL SVEGPISIVE LALEQKPIHY PLVEHHSVLC SILYASMRFS LKSVKPLALF DSKGKNAFFK DLTSIQLLPS GEMDPNFISV RQQFLLKVVS AAVQAQHSKD KDPSAEAANT HWKDLNWPGL AVDLAHHLQV SDDVIRRHYV GELYSHGADL LGEEAIFQVQ DKEVLASQLL VLTGQRLAHA LFHTQTKEGM ELLARLPPTL CTWLKAMNPQ DLQNTGVPIA ATAKLVHKVM ELLPEKHGQY SLALHLIDAV EAMATL

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

Product Details

	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®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	RAB3GAP2
Alternative Name:	Rab3gap2 (RAB3GAP2 Products)
Background:	Rab3 GTPase-activating protein non-catalytic subunit (Rab3 GTPase-activating protein 150 kDa subunit) (Rab3-GAP p150) (Rab3-GAP150) (Rab3-GAP regulatory subunit),FUNCTION: Regulatory subunit of the Rab3 GTPase-activating (Rab3GAP) complex composed of Rab3gap1 and Rab3gap2, which has GTPase-activating protein (GAP) activity towards various Rab3 subfamily members (RAB3A, RAB3B, RAB3C and RAB3D), RAB5A and RAB43, and guanine nucleotide exchange factor (GEF) activity towards RAB18 (By similarity). As part of the Rab3GAP complex, acts as a GAP for Rab3 proteins by converting active RAB3-GTP to the inactive form RAB3-GDP (By similarity). Rab3 proteins are involved in regulated exocytosis of neurotransmitters and hormones (By similarity). The Rab3GAP complex, acts as a GEF for RAB18 by promoting the conversion of inactive RAB18-GDP to the active form RAB18-GTP (By similarity). Required for recruiting and activating RAB18 at the endoplasmic reticulum (ER) membrane where it maintains proper ER structure (By similarity). Required for normal eye and brain development (By similarity). May participate in neurodevelopmental processes such as proliferation, migration and differentiation before synapse formation, and non-synaptic vesicular release of neurotransmitters (By similarity). {ECO:0000250|UniProtKB:Q15042, ECO:0000250|UniProtKB:Q9H2M9}.
Molecular Weight:	152.5 kDa

Target Details

UniProt:	Q8BMG7

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.
Expiry Date:	12 months

