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Datasheet for ABIN3136232

RAB3GAP2 Protein (AA 1-1366) (His tag)

1 Image

Overview

Quantity:	1 mg
Target:	RAB3GAP2
Protein Characteristics:	AA 1-1366
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RAB3GAP2 protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence: MACSIVQFCS FQDLQSARDF LPHLREETP GALKRDPSKT SSWEDDSWGA WEETEPREPE
EEGNTSKTQK NSWLQECVLS LSPTS DLMVI AREQKAAFLV RKWKHGDKGK EEMQFAVGWS
GSVSAEEGEY VTSALCIPLA SQKRSSTGRP DWTCIVVGFT SGYVRFYTEG VLLLAQLLNE
DKVLQKLCRT YEIPRHGVT 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 KAVNVPFHLLA
LSDKKSERAK DLHLVKKLSA LLRAKSPRPD SFETEIKELI LDIKYPATKK QALESILASD
RLSFSLRNV TQTLMDTLKN QELESVDEGL LQFCASKLKL LHLYESVSQL NTLDFHSDTP
FSDNDLAVLL RLDDKELLKL RALLEKYKQE NTKATVRFSE DADRVLVVKT FLEYLEYEKD

ALSIRKIGEE ECVALGSFFF WKCLHGKSST EEMCHSLESA GLSPQQLSL LLSVWLSKEK
DILDKPQSVC CLHTMLSLLS KMKVAIDETW DSQSVSPWWQ QMRMACIQSE NSGAALLSAH
VGHSVAAQMS SGATDKKFSQ MELDADAEAL TDSWEALSLD TEYWKLLLRQ LEDCLILQTL
LHSLKSPPA KAPSLQSEPL PRLSVKKLLE GGKGGIADSV AKWIFKQDLS PELLKCANKE
RDVENPDEPR EDLLHLAYEQ FPCSLELDVL HAHCCWEYVV QWNKDPEEAR FLVRSIEHLK
QILNPHVQNG IALMMWNTFL VKRFSAAATYL MDKVGKSPKD RLCRRDVGMS DTALTSFLGS
CLELLQTSLE ADISRDEVQV PVLDTEDAWL SVEGPISIVE LALEQKPIHY PLVEHHSVLC
SILYASMRF S LKSVKPLALF DSKGKNAFFK DLTSIQLLPS GEMDPNFISV RQFLLKVV S
AAVQAQHSKD KDPSAEAANT HWKDLNWPGL AVDLAHLH LQV SDDVIRRH YV GELYSHGADL
LGEEAIFQVQ DKEVLASQLL VLTGQRLAHA LFHTQTKEGM ELLARLPPTL CTWLKAMNPQ
DLQNTGVPIA ATAKLVHKVM ELLPEKHGQY SLALHLIDAV EAMATL

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Rab3gap2 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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 will ensure that you receive a correctly folded 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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm.

The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the ExPASy's protParam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

Product Details

1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity: >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility: 0.22 µm filtered

Endotoxin Level: Protein is endotoxin free.

Grade: Crystallography grade

Target Details

Target: RAB3GAP2

Alternative Name: Rab3gap2 ([RAB3GAP2 Products](#))

Background: Regulatory subunit of a GTPase activating protein that has specificity for Rab3 subfamily (RAB3A, RAB3B, RAB3C and RAB3D). Rab3 proteins are involved in regulated exocytosis of neurotransmitters and hormones. Rab3 GTPase-activating complex specifically converts active Rab3-GTP to the inactive form Rab3-GDP. Required for normal eye and brain development. 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}.

Molecular Weight: 153.5 kDa Including tag.

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: Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.

Application Details

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: 100 mM NaCl, 20 mM Hepes, 10% glycerol. pH value 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: Unlimited (if stored properly)

Images



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process