antibodies

## Datasheet for ABIN3134106 RAB11B Protein (AA 2-215) (His tag)

Image



Overview

Overview	
Quantity:	1 mg
Target:	RAB11B
Protein Characteristics:	AA 2-215
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RAB11B protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)
Product Details	
Sequence:	GTRDDEYDYL FKVVLIGDSG VGKSNLLSRF TRNEFNLESK STIGVEFATR SIQVDGKTIK
	AQIWDTAGQE RYRAITSAYY RGAVGALLVY DIAKHLTYEN VERWLKELRD HADSNIVIML
	VGNKSDLRHL RAVPTDEARA FAEKNNLSFI ETSALDSTNV EEAFKNILTE IYRIVSQKQI
	ADRAAHDESP GNNVVDISVP PTTDGQRPNK LQCC
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Mouse Rab11b Protein (raised in E. Coli) purified by multi-step, protein-specific process to ensure crystallization grade.</li> <li>State-of-the-art algorithm used for plasmid design (Gene synthesis).</li> </ul>
	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.

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	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 receival 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 bacterial culture:
	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:	Endotoxin has not been removed. Please contact us if you require endotoxin removal.
Grade:	Crystallography grade
Target Details	
Target:	RAB11B
Alternative Name:	Rab11b (RAB11B Products)

Background:	The small GTPases Rab are key regulators of intracellular membrane trafficking, from the
	formation of transport vesicles to their fusion with membranes. Rabs cycle between an inactive
	GDP-bound form and an active GTP-bound form that is able to recruit to membranes different

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and fusion. That Rab plays a role in endocytic recycling, regulating apical recycling of sex transmembrane proteine including cystic fibrosis transmembrane conductance regulator/CFTR, epithelial sodium channel/ENaC, potassium voltage-gated channel, and voltage-dependent L-type calcium channel. May also regulate constitutive and regulated secretion, like insulin granule exocytosis. Required for melanosome transport and release melanocytes. Also regulates V-ATPase intracellular transport in response to extracellular acidosis (ECO:0000269)PubMed:10942597, ECO:0000269)PubMed:19335615, ECO:0000269)PubMed:21291502, ECO:0000269)PubMed:22129970).         Molecular Weight:       25.0 kDa Including tag.         UniProt:       P46638         Pathways:       Hormone Transport, Carbohydrate Homeostasis         Application Details       as well. As the protein has not been tested for functional studies yet we cannot offer a gu though.         Comment:       Protein has not been tested for activity yet. In cases in which it is highly likely that the recombrant protein with the default tag will be insoluble our protein lab may suggest a h molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all post options with you in defail to assure that you receive your protein of interest.         Restrictions:       For Research Use only         Handling       100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufact Handling Advice:         Handling Advice:       Avoid repeated freeze-thaw cycles.         Storage       -80 °C		set of downstream effectors directly responsible for vesicle formation, movement, tethering
transmembrane proteins including cystic fibrosis transmembrane conductance         regulator/CFTR, epithelial sodium channel/ENaC, potassium voltage-gated channel, and         voltage-dependent L-type calcium voltage-gate         Application Details         Application Notes:       In addition to the applications listed above we expect the protein to work for functi		
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voltage-dependent L-type calcium channel. May also regulate constitutive and regulated secretion, like insulin granule exocytosis. Required for melanosome transport and release melanocytes. Also regulates V-ATPase intracellular transport in response to extracellular acidosis. (ECO:0000269)PubMed:19335615, ECO:0000269)PubMed:22129970).         Molecular Weight:       25.0 kDa including tag.         UniProt:       P46638         Pathways:       Hormone Transport, Carbohydrate Horneostasis         Application Details       as well. As the protein has not been tested for functional studies yet we cannot offer a gu 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 fab may suggest a finalecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all post options with you in detail to assure that you receive your protein of interest.         Restrictions:       For Research Use only         Handling       Liquid         Buffer:       100 mM NaCL, 20 mM Hepes, 10% glycerol, pH value is at the discretion of the manufact         Handling Advice:       Avoid repeated freeze-thaw cycles.         Storage:       480 °C		transmembrane proteins including cystic fibrosis transmembrane conductance
secretion, like insulin granule exocytosis. Required for melanosome transport and release         melanocytes. Also regulates V-ATPase intracellular transport in response to extracellular         acidosis. (ECO:0000269)PubMed:1291502, ECO:0000269)PubMed:19335615,         ECO:0000269)PubMed:21291502, ECO:0000269)PubMed:22129970).         Molecular Weight:       25.0 kDa Including tag.         UniProt:       P46638         Pathways:       Hormone Transport, Carbohydrate Homeostasis         Application Details       In addition to the applications listed above we expect the protein to work for functional st as well. As the protein has not been tested for functional studies yet we cannot offer a gu 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 F molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all post options with you in detail to assure that you receive your protein of interest.         Restrictions:       For Research Use only         Handling       100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufact Handling Advice:         Avoid repeated freeze-thaw cycles.       Storage Comment:         Storage Comment:       Storage 1:80°C.		regulator/CFTR, epithelial sodium channel/ENaC, potassium voltage-gated channel, and
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Even in a Deter	Storage Comment:	Store at -80°C.
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**Image 1.** "Crystallography Grade" protein due to multi-step, protein-specific purification process

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