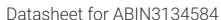
# antibodies -online.com





# RAB11A Protein (AA 2-213) (His tag)



Overview

- Overview	
Quantity:	1 mg
Target:	RAB11A
Protein Characteristics:	AA 2-213
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RAB11A protein is labelled with His tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB), Crystallization (Crys)
Product Details	
Sequence:	GTRDDEYDYL FKVVLIGDSG VGKSNLLSRF TRNEFNLESK STIGVEFATR SIQVDGKTIK
	AQIWDTAGQE RYRAITSAYY RGAVGALLVY DIAKHLTYEN VERWLKELRD HADSNIVIML
	VGNKSDLRHL RAVPTDEARA FAEKNGLSFI ETSALDSTNV EAAFQTILTE IYRIVSQKQM
	SDRRENDMSP SNNVVPIHVP PTTENKPKVQ CC
	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 Rab11a Protein (raised in E. Coli) purified by multi-step, protein-specific process to ensure crystallization grade.</li> </ul>
	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 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:	RAB11A
Alternative Name:	Rab11a (RAB11A 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

set of downstream effectors directly responsible for vesicle formation, movement, tethering
and fusion. That Rab regulates endocytic recycling. Acts as a major regulator of membrane
delivery during cytokinesis. Together with MYO5B and RAB8A participates in epithelial cell
polarization. Together with RAB3IP, RAB8A, the exocyst complex, PARD3, PRKCI, ANXA2,
CDC42 and DNMBP promotes transcytosis of PODXL to the apical membrane initiation sites
(AMIS), apical surface formation and lumenogenesis. Together with MYO5B participates in
CFTR trafficking to the plasma membrane and TF (Transferrin) recycling in nonpolarized cells.
Required in a complex with MYO5B and RAB11FIP2 for the transport of NPC1L1 to the plasma
membrane. Participates in the sorting and basolateral transport of CDH1 from the Golgi
apparatus to the plasma membrane. Regulates the recycling of FCGRT (receptor of Fc region of
monomeric Ig G) to basolateral membranes (By similarity). May also play a role in melanosome
transport and release from melanocytes. {ECO:0000250, ECO:0000269 PubMed:21291502}.

Molecular Weight:	24.9 kDa Including tag.
UniProt:	P62492
Pathways:	Regulation of Cell Size, Thromboxane A2 Receptor Signaling, Regulation of long-term Neuronal
	Synaptic Plasticity

# **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 gurantee
	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.

For Research Use only

# Handling

Restrictions:

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

# Handling

Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)