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RAB8A Protein (AA 1-204) (His tag)





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Overview	
Quantity:	1 mg
Target:	RAB8A
Protein Characteristics:	AA 1-204
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RAB8A protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)
Product Details	
Sequence:	MAKTYDYLFK LLLIGDSGVG KTCVLFRFSE DAFNSTFIST IGIDFKIRTI ELDGKRIKLQ
	IWDTAGQERF RTITTAYYRG AMGIMLVYDI TNEKSFDNIR NWIRNIEEHA SADVEKMILG
	NKCDVNDKRQ VSKERGEKLA LDYGIKFMET SAKANINVEN AFFTLARDIK AKMDKKLEGN
	SPQGSNQGVK ITPDQQKRSS FFRC
	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.
	• Human RAB8A Protein (raised in E. Coli) 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 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:	RAB8A	
Alternative Name:	RAB8A (RAB8A 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	

sets of downstream effectors directly responsible for vesicle formation, movement, tethering	
and fusion. That Rab is involved in polarized vesicular trafficking and neurotransmitter release.	
Together with RAB11A, RAB3IP, 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 and RAB11A participates in	
epithelial cell polarization. Plays an important role in ciliogenesis. Together with MICALL2, may	
also regulate adherens junction assembly. May play a role in insulin-induced transport to the	
plasma membrane of the glucose transporter GLUT4 and therefore play a role in glucose	
homeostasis. {ECO:0000269 PubMed:20890297, ECO:0000269 PubMed:21282656,	
ECO:0000269 PubMed:21844891}.	

Molecular Weight:	24.3 kDa Including tag.
UniProt:	P61006
Pathways:	M Phase, Regulation of long-term Neuronal Synaptic Plasticity, SARS-CoV-2 Protein Interactome

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional s	
	as well. As the protein has not been tested for functional studies yet we cannot offer a gurantee	
	though.	
Comment:	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.	
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

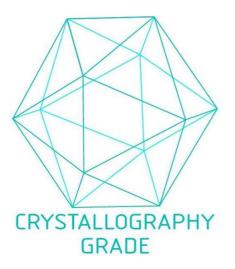


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process