

Datasheet for ABIN3094906 RAB10 Protein (AA 1-200) (Strep Tag)



Overview

Quantity:	1 mg
Target:	RAB10
Protein Characteristics:	AA 1-200
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RAB10 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MAKKTYDLLF KLLLIGDSGV GKTCVLFRFS DDAFNTTFIS TIGIDFKIKT VELQGKKIKL
	QIWDTAGQER FHTITTSYYR GAMGIMLVYD ITNGKSFENI SKWLRNIDEH ANEDVERMLL
	GNKCDMDDKR VVPKGKGEQI AREHGIRFFE TSAKANINIE KAFLTLAEDI LRKTPVKEPN
	SENVDISSGG GVTGWKSKCC
	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

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• 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 posttranslational 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!

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:	RAB10
Alternative Name:	RAB10 (RAB10 Products)
Background:	Ras-related protein Rab-10 (EC 3.6.5.2),FUNCTION: The small GTPases Rab are key regulators

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of intracellular membrane trafficking, from the formation of transport vesicles to their fusion
with membranes (PubMed:21248164). 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
(PubMed:21248164). That Rab is mainly involved in the biosynthetic transport of proteins from
the Golgi to the plasma membrane (PubMed:21248164). Regulates, for instance,
SLC2A4/GLUT4 glucose transporter-enriched vesicles delivery to the plasma membrane (By
similarity). In parallel, it regulates the transport of TLR4, a toll-like receptor to the plasma
membrane and therefore may be important for innate immune response (By similarity). Also
plays a specific role in asymmetric protein transport to the plasma membrane
(PubMed:16641372). In neurons, it is involved in axonogenesis through regulation of vesicular
membrane trafficking toward the axonal plasma membrane (By similarity). In epithelial cells, it
regulates transport from the Golgi to the basolateral membrane (PubMed:16641372). May play
a role in the basolateral recycling pathway and in phagosome maturation (By similarity). May
play a role in endoplasmic reticulum dynamics and morphology controlling tubulation along
microtubules and tubules fusion (PubMed:23263280). Together with LRRK2, RAB8A, and
RILPL1, it regulates ciliogenesis (PubMed:30398148). When phosphorylated by LRRK2 on Thr-
73, binds RILPL1 and inhibits ciliogenesis (PubMed:30398148). Participates in the export of a
subset of neosynthesized proteins through a Rab8-Rab10-Rab11-dependent endososomal
export route (PubMed:32344433). {ECO:0000250 UniProtKB:P24409,
ECO:0000250 UniProtKB:P61027, ECO:0000269 PubMed:16641372,
ECO:0000269 PubMed:21248164, ECO:0000269 PubMed:23263280,
ECO:0000269 PubMed:30398148, ECO:0000269 PubMed:32344433}., FUNCTION: (Microbial
infection) Upon Legionella pneumophila infection promotes endoplasmic reticulum recruitment
and bacterial replication. Plays a role in remodeling the Legionella-containing vacuole (LCV) into
an endoplasmic reticulum-like vacuole. {ECO:0000269 PubMed:31540829}.

Molecular Weight:	22.5 kDa
UniProt:	P61026
Pathways:	Asymmetric Protein Localization, SARS-CoV-2 Protein Interactome

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.

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Application Details

Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from
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	modifications.
	During lysate production, the cell wall and other cellular components that are not required for
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	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

HandlingFormat:LiquidBuffer: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 °CStorage Comment:Store at -80°C.Expiry Date:12 months