

Datasheet for ABIN7563490
RAB10 Protein (AA 1-200) (His tag)



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Overview

Quantity:	1 mg
Target:	RAB10
Protein Characteristics:	AA 1-200
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RAB10 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Rab10 Protein expressed in mammalian cells.
Sequence:	MAKKTYDLLF KLLIGDSGV GKTCVLFREFS DDAFNNTTFIS TIGIDFKIKT VELQGKKIKL QIWDTAGQER FHTITTSYR GAMGIMLVYD ITNGKSFENI SKWLRNIDEH ANEDVERMLL GNKCDMDDKR VVPKGKGEQI AREHGIRFFE TSAKANINIE KAFLTLAEDI LRKTPVKEPN SENVDISSGG GVTGWKSKCC Sequence without tag. The proposed Purification-Tag is based on experiences 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.
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits: <ul style="list-style-type: none">• Made to order protein - from design to production - by highly experienced protein experts.• Protein expressed in mammalian cells and purified in one-step affinity chromatography• The optimized expression system ensures reliability for intracellular, secreted and

Product Details

transmembrane proteins.

- 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.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
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Grade:	custom-made
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Target Details

Target:	RAB10
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Alternative Name:	Rab10 (RAB10 Products)
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Background:	<p>Ras-related protein Rab-10 (EC 3.6.5.2),FUNCTION: The small GTPases Rab are key regulators of intracellular membrane trafficking, from the formation of transport vesicles to their fusion with membranes (By similarity). 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 (By similarity). That Rab is mainly involved in the biosynthetic transport of proteins from the Golgi to the plasma membrane (By similarity). Regulates, for instance, SLC2A4/GLUT4 glucose transporter-enriched vesicles delivery to the plasma membrane (PubMed:17403373, PubMed:22908308, PubMed:27354378). 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 (PubMed:20643919). Also plays a specific role in asymmetric protein transport to the plasma membrane (By similarity). 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 (By similarity). 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 (By similarity). Together with LRRK2, RAB8A,</p>
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Target Details

and RILPL1, it regulates ciliogenesis (By similarity). When phosphorylated by LRRK2 on Thr-73, it binds RILPL1 and inhibits ciliogenesis (By similarity). Participates in the export of a subset of neosynthesized proteins through a Rab8-Rab10-Rab11-dependent endosomal export route (By similarity). {ECO:0000250|UniProtKB:P24409, ECO:0000250|UniProtKB:P35281, ECO:0000250|UniProtKB:P61026, ECO:0000269|PubMed:17403373, ECO:0000269|PubMed:20643919, ECO:0000269|PubMed:22908308, ECO:0000269|PubMed:27354378}.

Molecular Weight: 22.5 kDa

UniProt: [P61027](#)

Pathways: [Asymmetric Protein Localization](#), [SARS-CoV-2 Protein Interactome](#)

Application Details

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition 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: 12 months