

Datasheet for ABIN7555104  
**RAB5 Protein (AA 1-215) (His tag)**



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## Overview

Quantity:	1 mg
Target:	RAB5 (RAB5A)
Protein Characteristics:	AA 1-215
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RAB5 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant RAB5A Protein expressed in mammalian cells.
Sequence:	MASRGATRPN GPNTGNKICQ FKLVLGESA VGKSSLVLRV VKGQFHEFQE STIGAAFLTQ TVCLDDTTVK FEIWDTAGQE RYHSLAPMY RGAQAIVVY DITNEESFAR AKNWVKELQR QASPNIVIAL SGNKADLANK RAVDFQEAQS YADDNSLLFM ETSAKTSMNV NEIFMAIAKK LPKNEPQNPG ANSARGRGVD LTEPTQPTRN QCCSN <b>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.</b>
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"><li>• Made to order protein - from design to production - by highly experienced protein experts.</li></ul>

## Product Details

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- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and 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.

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

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## Target Details

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Target:	RAB5 (RAB5A)
Alternative Name:	RAB5A ( <a href="#">RAB5A Products</a> )
Background:	<p>Ras-related protein Rab-5A (EC 3.6.5.2),FUNCTION: Small GTPase which cycles between active GTP-bound and inactive GDP-bound states. In its active state, binds to a variety of effector proteins to regulate cellular responses such as of intracellular membrane trafficking, from the formation of transport vesicles to their fusion with membranes. Active GTP-bound form is able to recruit to membranes different sets of downstream effectors directly responsible for vesicle formation, movement, tethering and fusion. RAB5A is required for the fusion of plasma membranes and early endosomes (PubMed:10818110, PubMed:14617813, PubMed:16410077, PubMed:15378032). Contributes to the regulation of filopodia extension (PubMed:14978216). Required for the exosomal release of SDCBP, CD63, PDCD6IP and syndecan (PubMed:22660413). Regulates maturation of apoptotic cell-containing phagosomes, probably downstream of DYN2 and PIK3C3 (By similarity). {ECO:0000250 UniProtKB:Q9CQD1, ECO:0000269 PubMed:10818110, ECO:0000269 PubMed:14617813, ECO:0000269 PubMed:14978216, ECO:0000269 PubMed:15378032, ECO:0000269 PubMed:16410077, ECO:0000269 PubMed:22660413}.</p>
Molecular Weight:	23.7 kDa

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## Target Details

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UniProt: [P20339](#)

Pathways: [Smooth Muscle Cell Migration, Regulation of long-term Neuronal Synaptic Plasticity](#)

## Application Details

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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

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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