

Product datasheet

Recombinant Human Rab5b protein ab104545

1 Image

Description

Product name	Recombinant Human Rab5b protein
Purity	> 90 % SDS-PAGE. ab104545 is purified using conventional chromatography techniques.
Expression system	Escherichia coli
Accession	<u>P61020</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MGSSHHHHHHSSGLVPRGSHMG SMTSRSTARPNQGPQ ASKICQFKLVLLG ESAVGKSSSLVLRFBKGFHEYQESTIGAAFLTQSVCLDDT TVKFEWDTA GQERYHSLAPMYRGAQAAMVYDITNQETFARAKTWVKE LQRQASPSIV IALAGNKADLANKRMVEYEEAQAYADDNSLLFMETSAKTA MNVNDLFLAI AKKLPKSEPNLGGAAAGRSRGVDLHEQSQQNKSQCCSN
Predicted molecular weight	26 kDa including tags
Amino acids	1 to 215
Tags	His tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab104545** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE Mass Spectrometry
Mass spectrometry	MALDI-TOF
Form	Liquid

Preparation and Storage

Stability and Storage

Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

pH: 8.00

Constituents: 0.0154% DTT, 0.316% Tris HCl, 20% Glycerol (glycerin, glycerine), 1.16% Sodium chloride

General Info

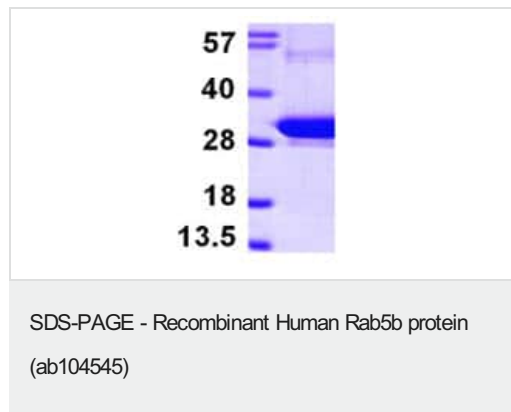
Relevance

Rab5b is a member of the Rab family of small (monomeric) G proteins. Like other small G proteins, Rab5b switches between an inactive, GDP-form and an active, GTP-bound form. GDP/GTP exchange factors (GEFs) catalyse the conversion from the GDP-bound form to the GTP-bound form, while GTPase-activating proteins (GAPs) catalyse GTP hydrolysis to GDP. Rab5b is involved in endocytosis and recycling of cell surface molecules. It interacts with RIN2 and RIN3, which regulate its function, possibly by acting as GEFs. Knockdown of Rab5b abolished group I metabotropic glutamate receptor (mGluR)-mediated neuroprotection. Furthermore, Rab5b interacts with LRRK2, the defective gene at the PARK8 locus that results in Parkinson's disease. Roles for Rab5b in neurodegenerative disease, neuroprotection, and synaptic plasticity have been suggested.

Cellular localization

Cell Membrane, Endosome

Images



15% SDS-PAGE analysis of 3µg ab104545.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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