abcam

Product datasheet

Recombinant Human RAB27A protein ab159297

1 Image

Overview

Product name	Recombinant Human RAB27A protein
Protein length	Protein fragment

Description

Nature	Recombinant
Source	Wheat germ
Amino Acid Sequence	
Species	Human
Sequence	YCENPDIVLCGNKSDLEDQRVVKEEEAIALAEKYGIPYF ETSAANGTNIS QAIEMLLDLIMKRMERCVDKSWIPEGVVRSNGHASTD QLSEEKEKGACGC
Amino acids	122 to 221
Tags	GST tag N-Terminus

Specifications

Our Abpromise guarantee covers the use of **ab159297** in the following tested applications.

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

Applications	Western blot ELISA
Form	Liquid
Additional notes	Protein concentration is above or equal to 0.05 mg/ml.

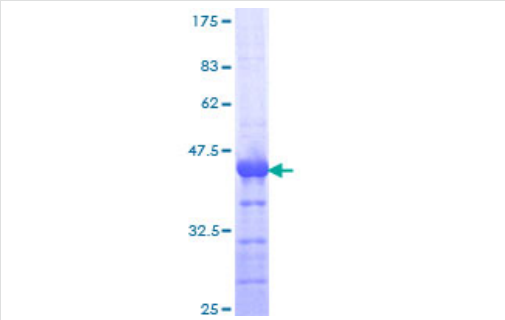
Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.31% Glutathione, 0.79% Tris HCl

General Info

Function	Plays a role in cytotoxic granule exocytosis in lymphocytes. Required for both granule maturation and granule docking and priming at the immunologic synapse.
Tissue specificity	Found in all the examined tissues except in brain. Low expression was found in thymus, kidney, muscle and placenta. Detected in melanocytes, and in most tumor cell lines examined. Expressed in cytotoxic T-lymphocytes (CTL) and mast cells.
Involvement in disease	Defects in RAB27A are a cause of Griscelli syndrome type 2 (GS2) [MIM:607624]. Griscelli syndrome is a rare autosomal recessive disorder that results in pigmentary dilution of the skin and hair, the presence of large clumps of pigment in hair shafts, and an accumulation of melanosomes in melanocytes. GS2 patients also develop an uncontrolled T-lymphocyte and macrophage activation syndrome, known as hemophagocytic syndrome, leading to death in the absence of bone marrow transplantation. Neurological impairment is present in some patients, likely as a result of hemophagocytic syndrome.
Sequence similarities	Belongs to the small GTPase superfamily. Rab family.
Cellular localization	Membrane. Melanosome. Late endosome. Lysosome. Identified by mass spectrometry in melanosome fractions from stage I to stage IV. Localizes to endosomal exocytic vesicles.

Images



SDS-PAGE - Recombinant Human RAB27A protein (ab159297)

ab159297 on a 12.5% SDS-PAGE stained with Coomassie Blue.

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