abcam

Product datasheet

Recombinant Human Rag A protein ab161103

1 Image

Overview

Product name	Recombinant Human Rag A protein
Protein length	Full length protein

Description

Nature	Recombinant
Source	Wheat germ
Amino Acid Sequence	
Species	Human
Sequence	MPNTAMKKKVLLMGKSGSGKTSMRSIIFANYIARDTRR LGATIDVEHSHV RFLGNLVLNLWDCGGQDTFMENYFTSQRDNIFRNVEV LIYVFDVESRELE KDMHYYQSCLEAILQNSPDAKIFCLVHKMDLVQEDQR DLIFKEREEDLRR LSRPLECACFRTSIWDETLYKAWSSIVYQLIPNVQQLE MNLRNFAQIIEA DEVLLFERATFLVISHYQCKEQRDVHRFEKISNIIKQFKL SCSKLAASFQ SMEVRNSNFAAFIDIFTSNTYVMVVMSDPSIPSAATLINI RNARKHFEKL ERVDGPKHSLLMR
Amino acids	1 to 313
Tags	proprietary tag N-Terminus

Specifications

Our Abpromise guarantee covers the use of **ab161103** 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.

Previously labelled as RRAGA.

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

Has guanine nucleotide-binding activity but undetectable intrinsic GTPase activity. Required for the amino acid-induced relocalization of mTORC1 to the lysosomes and its subsequent activation by the GTPase RHEB. This is a crucial step in the activation of the TOR signaling cascade by amino acids. Involved in the RCC1/Ran-GTPase pathway. May play a direct role in a TNF-alpha signaling pathway leading to induction of cell death. May alternatively act as a cellular target for adenovirus E3-14.7K, an inhibitor of TNF-alpha functions, thereby affecting cell death.

Tissue specificity

Ubiquitously expressed with highest levels of expression in skeletal muscle, heart, and brain.

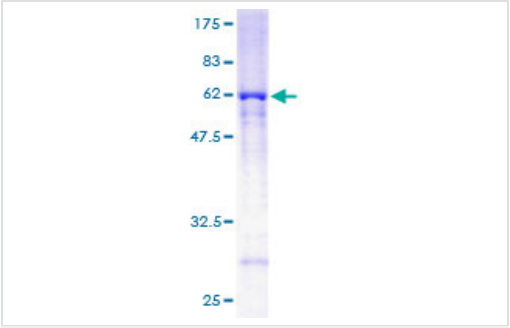
Sequence similarities

Belongs to the GTR/RAG GTP-binding protein family.

Cellular localization

Cytoplasm. Nucleus. Lysosome. Predominantly cytoplasmic. May shuttle between the cytoplasm and nucleus, depending on the bound nucleotide state. Colocalizes in vivo with adenovirus E3-14.7K mainly to the cytoplasm especially near the nuclear membrane and in discrete foci on or near the plasma membrane.

Images



SDS-PAGE - Recombinant Human Rag A protein (ab161103)

ab161103 on a 12.5% SDS-PAGE stained with Coomassie Blue.

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