abcam

Product datasheet

Recombinant Human TCIRG1 protein ab160939

1 Image

Overview

Product name	Recombinant Human TCIRG1 protein
Protein length	Full length protein

Description

Nature	Recombinant
Source	Wheat germ
Amino Acid Sequence	
Species	Human
Sequence	MTFLISYWGEQIGQKIRKITDCFHCHVFPFLQQEEARLG ALQQLQQQSQE LQEVLGETERFLSQVLGRVLQLLPPGQVQVHKMKAVY LALNQCSVSTTHK CLIAEAWCSVRDLPALQEALRDSSMEEGVSAVAHRIP CRDMPPTLIRTNR FTASFQGIVDAYGVGRYQEVNPAPYTIITFPFLFAVMFG DVGHGLLMFLF ALAMVLAENRPAVKAAQNEIWQTFFRGRYLLLLMGLF SIYTGFIYNECFS RATSIFPSGWSVAAMANQSGWSDAFLAQHTMLTLDP NVTGVFLGPYPFGI DPIWSLAANHLSFLNSFKMKMSVILGVVHMAFGVVLG VFNHVHFGQRHRL LLETLPELTFLLGLFGYLVFLVIYKWLCVWAARAASAP SILIHFINMFLF SHSPSNRLLYPRQEVVQATLVVLALAMVPILLLGTPLHL LHRHRRRLRRR PADRQEENKAGLLDLPDASVNGWSSDEEKAGGLDD EEEAELVPSEVLMHQ AIHTIEFCLGCVSNTASYLRLWALSLAHAQLSEVLWAM VMRIGLGLGREV GVAAVVLVPIFAAFAVMTVAILLVMEGLSAFLHALRLH WVEFQNKFYSGT GYKLSPFTFAATDD
Amino acids	1 to 614

Tags	proprietary tag N-Terminus

Specifications

Our Abpromise guarantee covers the use of **ab160939** in the following tested applications.

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

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

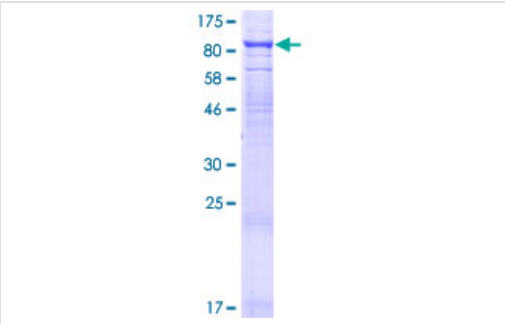
Preparation and Storage

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	Part of the proton channel of V-ATPases (By similarity). Seems to be directly involved in T-cell activation.
Tissue specificity	Isoform long is highly expressed in osteoclastomas. Isoform short is highly expressed in thymus.
Involvement in disease	Defects in TCIRG1 are the cause of osteopetrosis autosomal recessive type 1 (OPTB1) [MIM:259700]; also called autosomal recessive Albers-Schonberg disease or infantile malignant osteopetrosis. Osteopetrosis is a rare genetic disease characterized by abnormally dense bone, due to defective resorption of immature bone. The disorder occurs in two forms: a severe autosomal recessive form occurring in utero, infancy, or childhood, and a benign autosomal dominant form occurring in adolescence or adulthood. The features of OPTB1 are macrocephaly, progressive deafness and blindness, hepatosplenomegaly, and severe anemia beginning in early infancy or in fetal life. Deafness and blindness are generally thought to represent effects of pressure on nerves.
Sequence similarities	Belongs to the V-ATPase 116 kDa subunit family.
Cellular localization	Membrane.

Images



SDS-PAGE - Recombinant Human TCIRG1 protein (ab160939)

ab160939 on a 12.5% SDS-PAGE stained with Coomassie Blue.

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