



Product datasheet

Anti-TCIRG1 antibody ab224654

[2 Images](#)

Overview

Product name	Anti-TCIRG1 antibody
Description	Rabbit polyclonal to TCIRG1
Host species	Rabbit
Tested applications	Suitable for: IHC-P, ICC/IF
Species reactivity	Reacts with: Human
Immunogen	<p>Recombinant fragment corresponding to Human TCIRG1 aa 666-721. Sequence:</p> <p>RPADRQEENKAGLLDLPDASVNGWSSDEEKAGGLDDEE EAELVPSEVLMH QAIHTI</p> <p>Database link: Q13488</p> <p style="text-align: right;">  Run BLAST with  Run BLAST with </p>
Positive control	IHC-P: Human bone marrow tissue. ICC/IF: U-2 OS cells.
General notes	<p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.</p> <p>In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.</p> <p>We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.</p> <p>Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.</p> <p>Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.20 Preservative: 0.02% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab224654** in the following tested applications.

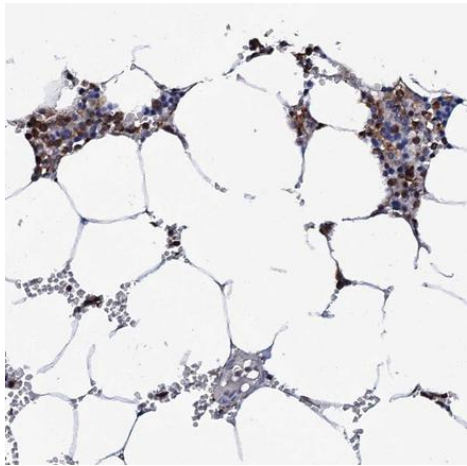
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/200 - 1/500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC/IF		Use a concentration of 0.25 - 2 µg/ml. Fixation/Permeabilization: PFA/Triton X-100.

Target

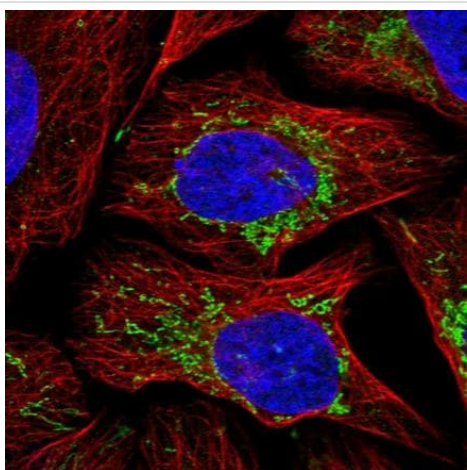
Function	Part of the proton channel of V-ATPases (By similarity). Seems to be directly involved in T-cell activation.
Tissue specificity	Isoform long is highly expressed in osteoclastomas. Isoform short is highly expressed in thymus.
Involvement in disease	Defects in TCIRG1 are the cause of osteopetrosis 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



Paraffin-embedded human bone marrow tissue stained for TCIRG1 using ab224654 at 1/200 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TCIRG1 antibody (ab224654)



PFA fixed, Triton X-100 permeabilized U-2 OS (human bone osteosarcoma epithelial cell line) cells stained for TCIRG1 (green) using ab224654 at 4 µg/ml in ICC/IF.

Immunocytochemistry/ Immunofluorescence - Anti-TCIRG1 antibody (ab224654)

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

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