

Datasheet for 600-401-FA6**TCIRG1 Antibody****Overview**

Description:	Anti-TCIRG1 (RABBIT) Antibody - 600-401-FA6
Item No.:	600-401-FA6
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	The T-cell immune regulator 1 (TCIRG1) is the $\alpha 3$ subunit of the vacuolar-type proton transporting ATPase (V-ATPase), a proton pump in late endosomes and lysosomes that functions in the luminal acidification of these organelles. Genetic defects in the gene encoding this protein are responsible for a severe form of autosomal recessive osteopetrosis, a condition that leads to increased bone density, decreased bone strength, and inflammation in bone tissues. TCIRG1 is also required for the normal secretion of insulin and the bacteria-killing function of macrophages.
Synonyms:	TCIRG1 Antibody, $\alpha 3$, Stv1, Vph1, Atp6i, OC116, OPTB1, TIRC7, ATP6N1C, ATP6V0A3, OC-116kDa, V-type proton ATPase 116 kDa subunit α isoform 3, Osteoclastic proton pump 116 kDa subunit, V-ATPase 116 kDa isoform $\alpha 3$
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	TCIRG1
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-TCIRG1 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 19 amino acid synthetic peptide near the N-terminus of human TCIRG1.

Purity/Specificity: Anti-TCIRG1 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. At least two alternatively spliced isoforms are known to exist; this antibody will only detect the larger isoform.

Relevant Links:

- [UniProtKB - Q13488](#)
- [GeneID - 10312](#)
- [NCBI - NP_006010.2](#)

Application Details

Tested Applications: ELISA, WB

Application Note: Anti-TCIRG1 Antibody has been tested for use in ELISA and Western Blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 93 kDa in Western Blots of specific cell lysates and tissues.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: 1:5,000

WB: 0.5 µg/mL

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1 mg/mL by UV absorbance at 280 nm

Buffer: 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2

Preservative: 0.02% (w/v) Sodium Azide

Stabilizer: None

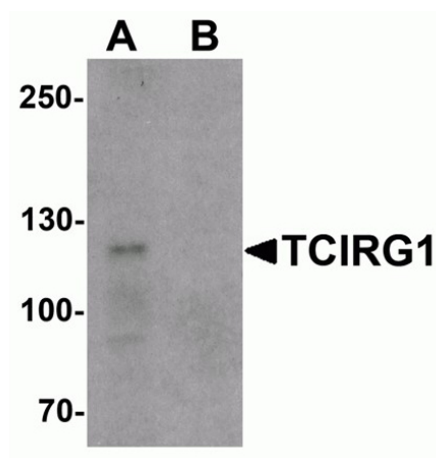
Shipping & Handling

Shipping Condition: Dry Ice

Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Western Blot

Western blot analysis of TCIRG1.

Load: EL4 cell lysate.

Primary Antibody: TCIRG1 antibody at 0.5 µg/ml in (A) the absence and (B) the presence of blocking peptide.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.