

Rabbit TCIRG1 Polyclonal Antibody | anti-TCIRG1 antibody

TCIRG1 Antibody (C-Term)

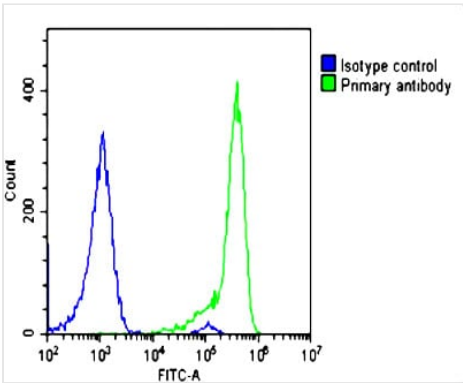
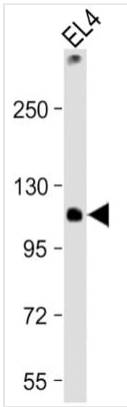
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA290895	Rabbit	MousePredicted: Human	ELISA, Western Blot, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

TCIRG1; Polyclonal Antibody; TCIRG1 Antibody (C-Term); Purified Rabbit Polyclonal Antibody (Pab); V-type proton ATPase 116 kDa subunit a isoform 3; V-ATPase 116 kDa isoform a3; Osteoclastic proton pump 116 kDa subunit; OC-116 kDa; OC116; T-cell immune regulator 1; T-cell immune response cDNA7 protein; TIRC7; Vacuolar proton translocating ATPase 116 kDa subunit a isoform 3; ATP6N1C; ATP6V0A3; anti-TCIRG1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse Predicted: Human
Clonality	Polyclonal
Isotype	IgG
Specificity	This TCIRG1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 668-702 amino acids from the human region of human TCIRG1.
Purity/Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide
Sequence Length	830
Applicable Applications for anti-TCIRG1 antibody	ELISA, WB (Western Blot), FCM/FACS (Flow Cytometry)
Function	Subunit of the V0 complex of vacuolar(H ⁺)-ATPase (V-ATPase), a multisubunit enzyme composed of a peripheral complex (V1) that hydrolyzes ATP and a membrane integral complex (V0) that translocates protons (By similarity). V-ATPase is responsible for acidifying and maintaining the pH of intracellular compartments and in some cell types, is targeted to the plasma membrane, where it is responsible for acidifying the extracellular environment (By similarity). Seems to be directly involved in T-cell activation (PubMed:10329006).
Tissue Location	Isoform long is highly expressed in osteoclastomas. Isoform short is highly expressed in thymus
Cellular Location	Membrane; Multi-pass membrane protein
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.



FCM/FACS (Flow Cytometry)
Overlay histogram showing U-2 OS cells stained with AAA290895 (green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then incubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AAA290895, 1:25 dilution) for 60 min at 37 degree C. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight 488 Conjugated Highly Cross-Adsorbed(OE188374) at 1/200 dilution for 40 min at 37 degree C. Isotype control antibody (blue line) was rabbit IgG1 (1μg/1x10⁶ cells) used under the same conditions. Acquisition of >10, 000 events was performed.

ADDITIONAL INFORMATION

Related Product Information for anti-TCIRG1 antibody	Part of the proton channel of V-ATPases (By similarity). Seems to be directly involved in T-cell activation.
Product Categories/Family for anti-TCIRG1 antibody	Primary Antibodies; Metabolism; Signal Transduction
References	Li Y.P.,et al.Biochem. Biophys. Res. Commun. 218:813-821(1996). Utku N.,et al. Submitted (SEP-1997) to the EMBL/GenBank/DDBJ databases. Heinemann T.,et al.Genomics 57:398-406(1999). Mural R.J.,et al. Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases. Sobacchi C.,et al.Hum. Mol. Genet. 10:1767-1773(2001).

NCBI AND UNIPROT INFORMATION

NCBI GI #	19924145
NCBI GeneID	10312
NCBI Accession #	NP_006010.2
NCBI GenBank Nucleotide #	NM_006019.3
UniProt Accession #	Q13488; O75877; Q8WVC5
Molecular Weight	92968
NCBI Official Full Name	V-type proton ATPase 116 kDa subunit a isoform 3 isoform a
NCBI Official Synonym Full Names	T cell immune regulator 1, ATPase H ⁺ transporting V0 subunit a3
NCBI Official Symbol	TCIRG1
NCBI Official Synonym Symbols	a3; Stv1; Vph1; Atp6i; OC116; OPTB1; TIRC7; ATP6N1C; ATP6V0A3; OC-116kDa
NCBI Protein Information	V-type proton ATPase 116 kDa subunit a isoform 3; V-type proton ATPase 116 kDa subunit a
UniProt Protein Name	V-type proton ATPase 116 kDa subunit a isoform 3
UniProt Gene Name	TCIRG1
UniProt Synonym Gene Names	ATP6N1C; ATP6V0A3; V-ATPase 116 kDa isoform a3; OC-116 kDa; OC116; TIRC7

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/tc1rg1-antibody-western-blot-flow-cytometry-elisa/290895>