Recombinant Human TCIRG1 Protein, His-tagged

Cat. No. TCIRG1-2753H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TCIRG1 Protein (Arg49-Val348) with a N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Arg49-Val348
Description	This gene encodes a subunit of a large protein complex known as a vacuolar H+-ATPase (V-ATPase). The protein complex acts as a pump to move protons across the membrane. This movement of protons helps regulate the pH of cells and their surrounding environment. V-ATPase dependent organelle acidification is necessary for such intracellular processes as protein sorting, zymogen activation, and receptor-mediated endocytosis. V-ATPase is comprised of a cytosolic V1 domain and a transmembrane V0 domain. Alternative splicing results in multiple transcript variants. Mutations in this gene are associated with infantile malignant osteopetrosis.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 37.6 kDa Accurate Molecular Mass: 38 kDa
Endotoxin	<1.0 EU per 1μg (determined by the LAL method).

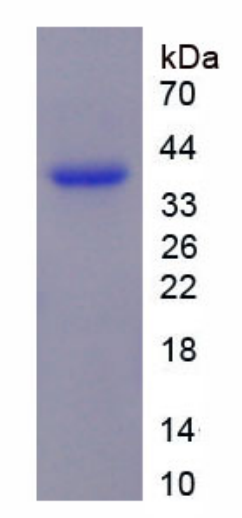
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Purity	> 95%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	TCIRG1 T-cell, immune regulator 1, ATPase, H+ transporting, lysosomal V0 subunit A3 [Homo sapiens (human)]
Official Symbol	TCIRG1
Synonyms	TCIRG1; T-cell, immune regulator 1, ATPase, H+ transporting, lysosomal V0 subunit A3; T cell, immune regulator 1, T cell, immune regulator 1, ATPase, H+ transporting, lysosomal V0 protein a isoform 3, T cell, immune regulator 1, ATPase, H+ transporting, lysosomal V0 protein A3; V-type proton ATPase 116 kDa subunit a isoform 3; a3; Atp6i; ATP6N1C; ATP6V0A3; OC 116; OC116; T cell immune response cDNA 7; TIRC7; OC-116 kDa; V-ATPase 116-kDa; T-cell immune response

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	cDNA 7; ATPase, H+ transporting, 116kD; V-type proton ATPase 116 kDa subunit a; osteoclastic proton pump 116 kDa subunit; specific 116-kDa vacuolar proton pump subunit; vacuolar proton translocating ATPase 116 kDa subunit A; T-cell, immune regulator 1, ATPase, H+ transporting, lysosomal V0 protein a; Stv1; Vph1; OPTB1; OC-116kDa;
Gene ID	10312
mRNA Refseq	NM_006019
Protein Refseq	NP_006010
MIM	604592
UniProt ID	Q13488
	

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