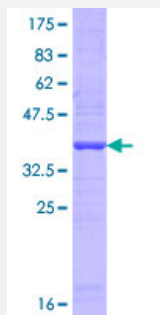


TCIRG1 (Human) Recombinant Protein (Q02)

Catalog # H00010312-Q02

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human TCIRG1 partial ORF (NP_006010.2, 138 a.a. - 235 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	PQLAAAHTDGASERTPLLQAPGGPHQDLRVNFVAGAVEPHKAPALERLLWRACRGFLIASFREL EQPLEHPVTGEPATWMTFLISYWGEQIGQKIRKI
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.52
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — TCIRG1

Entrez GeneID [10312](#)

GeneBank Accession# [NM_006019](#)

Protein Accession# [NP_006010.2](#)

Gene Name TCIRG1

Gene Alias ATP6N1C, ATP6V0A3, Atp6i, OC-116kDa, OC116, OPTB1, Stv1, TIRC7, Vph1, a3

Gene Description T-cell, immune regulator 1, ATPase, H⁺ transporting, lysosomal V0 subunit A3

Omim ID [259700 604592](#)

Gene Ontology [Hyperlink](#)

Gene Summary Through alternate splicing, this gene encodes two proteins with similarity to subunits of the vacuolar ATPase (V-ATPase) but the encoded proteins seem to have different functions. V-ATPase is a multisubunit enzyme that mediates acidification of eukaryotic intracellular organelles. 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. Mutations in this gene are associated with infantile malignant osteopetrosis. [provided by RefSeq]

Other Designations ATPase, H⁺ transporting, 116kD|T cell immune response cDNA7 protein|T-cell immune regulator 1|T-cell, immune regulator 1|T-cell, immune regulator 1, ATPase, H⁺ transporting, lysosomal V0 protein A3|T-cell, immune regulator 1, ATPase, H⁺ transporting, lyso

Pathway

- [Epithelial cell signaling in Helicobacter pylori infection](#)
- [Lysosome](#)

- [Metabolic pathways](#)
- [Oxidative phosphorylation](#)
- [Vibrio cholerae infection](#)

Disease

- [Genetic Predisposition to Disease](#)
- [Osteopetrosis](#)
- [Osteoporosis](#)