

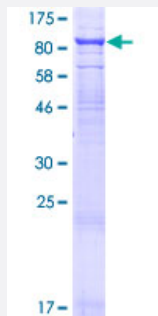
Full-Length

TCIRG1 (Human) Recombinant Protein (P01)

Catalog # H00010312-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human TCIRG1 full-length ORF (NP_006044.1, 1 a.a. - 614 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MTFLISYWGEQIGQKIRKITDCFHCHVFPFLQQEEARLGALQQLQQSQELQEVLGETERFLSQVL
GRVLQLLPPGQVQVHKMKAVYLALNQCSTTHKCLIAEAWCSVRDLPALQEALRDSSMEEGV
SAVAHRIPCRDMPPTLIRTNRTASFQGIVDAYGVGRYQEVNPAPYTIITFPFLFAVMFGDVGHGLL
MFLFALAMVLAENRPAVKAAQNEWQTFFRGRYLLLLMGLFSIYTGFIYNECFSRATSIFFSGWSVA
AMANQSGWSDAFLAQHTMLTLDPNVTGVFLGPYPFGIDPWSLAANHLSFLNSFKMKMSVILGVV
HMAFGVVLGVFNHVFHFGQRHRLLETLPELTFLLGLFGYLVFLVIKWLCVWAARAASAPSILHFIN
MFLFSHSPSNRLLYPRQEVVQATLVVLALAMVPILLGTPLHLLHRHRRRLRRRPADRQEENKAGL
LDLPDASVNGWSSDEEKAGGLDDEEEAELVPSEVLMHQAIHTIEFCLGCVSNTASYRLWALS
AHAQLSEVLWAMVMRIGLGLGREVGVAAVVLVPIFAAFVMTVAILLVMEGLSAFLHALRLHWVE
FQNKFYSGTGYKLSPTFAATDD

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

95.2

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_006053.2
Protein Accession#	NP_006044.1
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](#)