

TCIRG1 rabbit monoclonal antibody

Catalog # H00010312-K

Size 100 ug x up to 3

Specification

Product Description	Rabbit monoclonal antibody raised against a human TCIRG1 peptide using ARM Technology.
Immunogen	A synthetic peptide of human TCIRG1 is used for rabbit immunization. Customer or Abnova will decide on the preferred peptide sequence.
Host	Rabbit
Library Construction	Non-fusion antibody library from rabbit spleen (ARM Technology).
Expression	Overexpression vector and transfection into 293H cell line.
Reactivity	Human
Purification	Protein A
Isotype	IgG
Quality Control Testing	Antibody reactive against human TCIRG1 peptide by ELISA and mammalian transfected lysate by Western Blot.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Deliverable	Up to three rabbit IgG clones of 100 ug each will be delivered to customer.
Note	1. Customer may provide cell or tissue lysate for antibody screening. 2. Rabbit monoclonal antibody generated by ARM technology is amenable to antibody engineering including F(ab) ₂ , IgG, scFv and different Fc and non-Fc conjugates per customer request.

Applications

- Western Blot (Transfected lysate)

[Protocol Download](#)

- ELISA

Gene Info — TCIRG1

Entrez GeneID	10312
GeneBank Accession#	TCIRG1
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

Publication Reference

- [Bovine parathyroid hormone enhances osteoclast bone resorption by modulating V-ATPase through PTH1R.](#)

Liu S, Zhu W, Li S, Ma J, Zhang H, Li Z, Zhang L, Zhang B, Li Z, Liang X, Shi W.

International Journal Of Molecular Medicine 2016 Feb; 37(2):284.

Application: WB-Ce, Mouse, Osteoclast(monocyte-macrophage)

Pathway

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

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

Disease

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