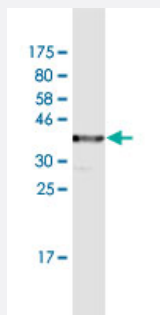


TCIRG1 monoclonal antibody (M02), clone 7H20

Catalog # H00010312-M02

Size 50 ug

Applications



Western Blot detection against Immunogen (36.74 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant TCIRG1.
Immunogen	TCIRG1 (AAH18133, 121 a.a. ~ 220 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	QLHQLQLHAAVLRQGHEPQLAAAHDTGASERTPLLQAPGGPHQDLRVNFVAGAVEPHKAPALE RLLWRACRGFLIASFRELEQPLEHPVTGEPATWMTFL
Host	Mouse
Reactivity	Human
Isotype	IgG1 Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.74 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Recombinant protein)

[Protocol Download](#)

- ELISA

Gene Info — TCIRG1

Entrez GeneID [10312](#)

GeneBank Accession# [BC018133](#)

Protein Accession# [AAH18133](#)

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

- [A comparison of osteoclast-rich and osteoclast-poor osteopetrosis in adult mice sheds light on the role of the osteoclast in coupling bone resorption and bone formation.](#)

Thudium CS, Moscatelli I, Flores C, Thomsen JS, Bruel A, Gudmann NS, Hauge EM, Karsdal MA, Richter J, Henriksen K. Calcified Tissue International 2014 Jul; 95(1):83.

Application: WB-Ti, Mouse, Bone

Pathway

- [Epithelial cell signaling in Helicobacter pylori infection](#)
- [Lysosome](#)
- [Metabolic pathways](#)
- [Oxidative phosphorylation](#)
- [Vibrio cholerae infection](#)

Disease

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