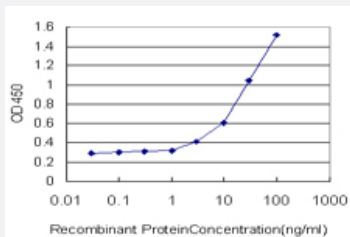


ATP6V1B2 monoclonal antibody (M02), clone M1

Catalog # H00000526-M02

Size 100 ug

Applications



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged ATP6V1B2 is approximately 0.03ng/ml as a capture antibody.

Specification

Product Description	Mouse monoclonal antibody raised against a full length recombinant ATP6V1B2.
Immunogen	ATP6V1B2 (AAH03100, 1 a.a. ~ 511 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MALRAMRGVNGAAPVPTGGPAVGAREQALAVSRNYSQPRLTYKTVSGVNGPLVILDHVKF PRYAEIMHLLTPDGTKRSGQVLEVSGSKAVVQVFEGTSGIDAKKTSCEFTGDILRTPVSEDMGRV FNGSGKPIDRGPVLAEDFLDIMGQPINPQCRIYPEEMIQTGISAIDGMNSIARGQKIPISAAAGLPHN EAAQICRQAGLVKSKDVVDYSEENFAVFAAMGVNMETARFFKSDFEENGSMNDVCLFLNLAN DPTIERIITPRLALTAAEFLLAYQCEKHVLVIL TDMSSYAEALREVSAAREEVPGRRGFPGMYTDLAT YERAGRVEGRNGSITQIPILTMPND DITHPIPDLTGYTEGQIYVDRQLHNRQIYPPINVLP SLSRLMKS AIGEGMTRKDHADVSNQLYACYAIGKDVQAMKAVVGEEALTSDDLLYLEFLQKFERNFIAQGPYE NRTVFETLDIGWQLLRIFPKEMLKRI PQSTLSEFYPRDSAKH
Host	Mouse
Reactivity	Human
Isotype	IgG2b Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein.
Storage Buffer	In 1x PBS, pH 7.4

Storage Instruction

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged ATP6V1B2 is approximately 0.03ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

Gene Info — ATP6V1B2

Entrez GeneID [526](#)**GeneBank Accession#** [BC003100](#)**Protein Accession#** [AAH03100](#)**Gene Name** ATP6V1B2**Gene Alias** ATP6B1B2, ATP6B2, HO57, VATB, VPP3, Vma2**Gene Description** ATPase, H⁺ transporting, lysosomal 56/58kDa, V1 subunit B2**Omim ID** [606939](#)**Gene Ontology** [Hyperlink](#)

Gene Summary

This gene encodes a component of vacuolar ATPase (V-ATPase), 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, receptor-mediated endocytosis, and synaptic vesicle proton gradient generation. V-ATPase is composed of a cytosolic V1 domain and a transmembrane V0 domain. The V1 domain consists of three A, three B, and two G subunits, as well as a C, D, E, F, and H subunit. The V1 domain contains the ATP catalytic site. The protein encoded by this gene is one of two V1 domain B subunit isoforms and is the only B isoform highly expressed in osteoclasts. [provided by RefSeq]

Other Designations

ATPase, H⁺ transporting, lysosomal (vacuolar proton pump), beta polypeptide, 56/58kD, isoform 2|ATPase, H⁺ transporting, lysosomal 56/58kDa, V1 subunit B, isoform 2|H⁺ transporting two-sector ATPase|V-ATPase B2 subunit|endomembrane proton pump 58 kDa subu

Publication Reference

- [The histone deacetylase inhibitor trichostatin A reduces lysosomal pH and enhances cisplatin-induced apoptosis.](#)

Eriksson I, Joosten M, Roberg K, Ollinger K.

Experimental Cell Research 2013 Jan; 319(1):12.

Application: WB-Ce, Human, UT-SCC-77cells

- [Intrinsic differences in cisplatin sensitivity of head and neck cancer cell lines: Correlation to lysosomal pH.](#)

Nilsson C, Roberg K, Grafstrom RC, Ollinger K.

Head & Neck 2010 Sep; 32(9):1185.

Application: WB-Ce, Human, HNSCC cells, Normal oral keratinocytes

Pathway

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

Disease

- [Tobacco Use Disorder](#)