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ATP6V1B2 Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a full length recombinant ATP6V1B2.
Catalog # AT1241a

Product Information

Application	E
Primary Accession	P21281
Other Accession	BC003100
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2b Kappa
Clone Names	M1
Calculated MW	56501

Additional Information

Gene ID	526
Other Names	V-type proton ATPase subunit B, brain isoform, V-ATPase subunit B 2, Endomembrane proton pump 58 kDa subunit, HO57, Vacuolar proton pump subunit B 2, ATP6V1B2, ATP6B2, VPP3
Target/Specificity	ATP6V1B2 (AAH03100, 1 a.a. ~ 511 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	ATP6V1B2 Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

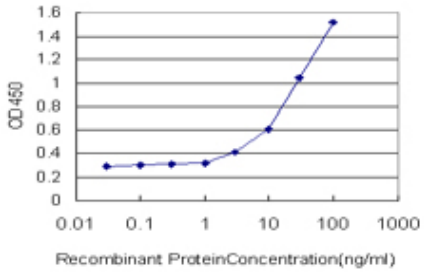
Background

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.

References

1.The histone deacetylase inhibitor trichostatin A reduces lysosomal pH and enhances cisplatin-induced apoptosis.Eriksson I, Joosten M, Roberg K, Ollinger K.Exp Cell Res. 2013 Jan 1;319(1):12-20. doi: 10.1016/j.yexcr.2012.10.004. Epub 2012 Oct 12.2.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):1185-94.

Images



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