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ATP6V1C2 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant ATP6V1C2.
Catalog # AT1242a

Product Information

Application	WB, E
Primary Accession	Q8NEY4
Other Accession	NM_144583
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2b Kappa
Clone Names	3D5
Calculated MW	48759

Additional Information

Gene ID	245973
Other Names	V-type proton ATPase subunit C 2, V-ATPase subunit C 2, Vacuolar proton pump subunit C 2, ATP6V1C2
Target/Specificity	ATP6V1C2 (NP_653184, 188 a.a. ~ 253 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 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	ATP6V1C2 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

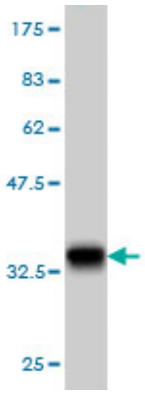
Background

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. This gene encodes alternate transcriptional splice variants, encoding different V1 domain C subunit isoforms.

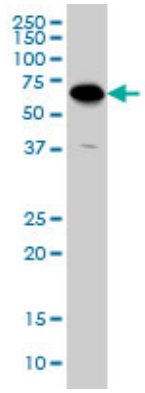
References

Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614.Diversification of transcriptional modulation: large-scale identification and characterization of putative alternative promoters of human genes. Kimura K, et al. Genome Res, 2006 Jan. PMID 16344560.Structural features and nucleotide-binding capability of the C subunit are integral to the regulation of the eukaryotic V1Vo ATPases. Gr?ber G. Biochem Soc Trans, 2005 Aug. PMID 16042619.Circular rapid amplification of cDNA ends for high-throughput extension cloning of partial genes. Fu GK, et al. Genomics, 2004 Jul. PMID 15203218.Neurotransmitter release: the dark side of the vacuolar-H+ATPase. Morel N. Biol Cell, 2003 Oct. PMID 14597263.

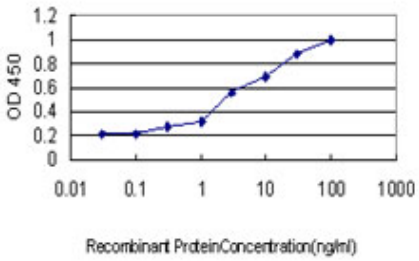
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (33 KDa) .



ATP6V1C2 monoclonal antibody (M01), clone 3D5 Western Blot analysis of ATP6V1C2 expression in HeLa ((Cat # AT1242a)



Detection limit for recombinant GST tagged ATP6V1C2 is approximately 0.03ng/ml as a capture antibody.