ATP6V1C2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ATP6V1C2, Polyclonal Antibody
Full Product Name	ATP6V1C2, ID (ATP6V1C2, V-type proton ATPase subunit C 2, Vacuolar proton pump subunit C 2) (MaxLight 490)
Product Gene Name	anti-ATP6V1C2 antibody
Product Synonym Names	ATP6V1C2; V-type proton ATPase subunit C 2; Vacuolar proton pump subunit C 2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
3D Structure	ModBase 3D Structure for Q8NEY4
Immunogen	ATP6V1C2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 275-304 amino acids from the Central region of human ATP6V1C2.
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-ATP6V1C2 antibody	Antibodies; Enzymes; ATPase
Applications Tested/Suitable for anti-ATP6V1C2 antibody	Western Blot (WB), FLISA
Application Notes for anti-ATP6V1C2 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-ATP6V1C2 antibody	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.
Product References and Citations for anti-ATP6V1C2 antibody	Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010): Gruber, G. Biochem. Soc. Trans. 33 (PT 4), 883-885 (2005): Morel, N. Biol. Cell 95(7):453-457(2003). Smith, A.N., et al. Mol. Cell 12(4):801-803(2003). Kawasaki-Nishi, S., et al. FEBS Lett. 545(1):76-85(2003).
Other Notes	Small volumes of anti-ATP6V1C2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for ATP6V1C2 purchase	MBS6276695 is an antibody targeting ATP6V1C2. Also known as ATP6V1C2, ID (ATP6V1C2, V-type proton ATPase subunit C 2, Vacuolar proton pump subunit C 2) (MaxLight 490). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ATP6V1C2. It may not necessarily be applicable to this product.

NCBI GI #	47717098
NCBI GeneID	245973
NCBI Accession #	NP_653184.2
UniProt Primary Accession #	Q8NEY4
UniProt Related Accession #	Q8NEY4
GenBank Nucleotide #	NP_653184.2
NCBI Official Full Name	V-type proton ATPase subunit C 2 isoform b
NCBI Official Synonym Full Names	ATPase H+ transporting V1 subunit C2
NCBI Official Symbol	ATP6V1C2
NCBI Official Synonym Symbols	VMA5; ATP6C2
UniProt Protein Name	V-type proton ATPase subunit C 2
UniProt Synonym Protein Names	Vacuolar proton pump subunit C 2
Protein Family	V-type proton ATPase
UniProt Gene Name	ATP6V1C2
UniProt Synonym Gene Names	V-ATPase subunit C 2
UniProt Entry Name	VATC2_HUMAN
NCBI Protein Information	V-type proton ATPase subunit C 2
UniProt Comments for ATP6V1C2	ATP6V1C2: Subunit of the peripheral V1 complex of vacuolar ATPase. Subunit C is necessary for the assembly of the catalytic sector of the enzyme and is likely to have a specific function in its catalytic activity. V-ATPase is responsible for acidifying a variety of intracellular compartments in eukaryotic cells. Belongs to the V-ATPase C subunit family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: EC 3.6.3.14; Energy Metabolism - oxidative phosphorylation; Hydrolase Chromosomal Location of Human Ortholog: - Cellular Component: lysosomal membrane; cytosol Molecular Function: hydrogen-exporting ATPase activity, phosphorylative mechanism; protein dimerization activity Biological Process: interaction with host; cellular iron ion homeostasis; ATP hydrolysis coupled proton transport; insulin receptor signaling pathway; transferrin transport; transmembrane transport; positive regulation of Wnt receptor signaling pathway
Research Articles on ATP6V1C2	**1.** Clinical trial of gene-disease association and gene-environment interaction. (HuGE Navigator)
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