

ATP6V0B Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP10432c**Specification**

ATP6V0B Antibody (Center) Blocking peptide - Product Information

Primary Accession [O99437](#)
Other Accession [NP_001034546.1](#), [NP_004038.1](#)

ATP6V0B Antibody (Center) Blocking peptide - Additional Information

Gene ID 533

Other Names

V-type proton ATPase 21 kDa proteolipid subunit, V-ATPase 21 kDa proteolipid subunit, Vacuolar proton pump 21 kDa proteolipid subunit, hATPL, ATP6V0B, ATP6F

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

ATP6V0B Antibody (Center) Blocking peptide - Protein Information

Name ATP6V0B

Synonyms ATP6F

Function

Proton-conducting pore forming subunit of the V0 complex of vacuolar(H⁺)-ATPase (V-ATPase), a multisubunit enzyme composed of a peripheral complex (V1) that hydrolyzes ATP and a membrane integral complex (V0) that translocates protons (PubMed:33065002). V-ATPase is responsible for acidifying and maintaining the pH of intracellular compartments and in some cell types, is targeted to the plasma membrane, where it is responsible for acidifying the extracellular environment (By similarity).

Cellular Location

Cytoplasmic vesicle, clathrin-coated vesicle membrane {ECO:0000250|UniProtKB:Q2TA24};
Multi-pass membrane protein

Tissue Location

Ubiquitous.

ATP6V0B Antibody (Center) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

ATP6V0B Antibody (Center) Blocking peptide - Images

ATP6V0B Antibody (Center) Blocking peptide - 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 and three B subunits, two G subunits plus the C, D, E, F, and H subunits. The V1 domain contains the ATP catalytic site. The V0 domain consists of five different subunits: a, c, c', c'', and d. Additional isoforms of many of the V1 and V0 subunit proteins are encoded by multiple genes or alternatively spliced transcript variants. This encoded protein is part of the transmembrane V0 domain and is the human counterpart of yeast VMA16. Two alternatively spliced transcript variants that encode different proteins have been found for this gene.

ATP6V0B Antibody (Center) Blocking peptide - References

Lu, M., et al. J. Biol. Chem. 282(34):24495-24503(2007) Rojas, J.D., et al. Biochem. Biophys. Res. Commun. 320(4):1123-1132(2004) Morel, N. Biol. Cell 95(7):453-457(2003) Smith, A.N., et al. Mol. Cell 12(4):801-803(2003) Izumi, H., et al. Biochim. Biophys. Acta 1628(2):97-104(2003)