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ATP6V0C Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP10470b

Specification

ATP6V0C Antibody (C-term) Blocking Peptide - Product Information

Primary Accession	P27449
Other Accession	NP_001685.1

ATP6V0C Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 527

Other Names
V-type proton ATPase 16 kDa proteolipid subunit, V-ATPase 16 kDa proteolipid subunit, Vacuolar proton pump 16 kDa proteolipid subunit, ATP6V0C, ATP6C, ATP6L, ATPL

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.

ATP6V0C Antibody (C-term) Blocking Peptide - Protein Information

Name ATP6V0C

Synonyms ATP6C, ATP6L, ATPL

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:P63081}; Multi-pass membrane protein. Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane {ECO:0000250|UniProtKB:P63081}; Multi-pass membrane protein

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ATP6V0C Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

ATP6V0C Antibody (C-term) Blocking Peptide - Images

ATP6V0C Antibody (C-term) Blocking Peptide - Background

ATP6V0C is a component of vacuolar ATPase(V-ATPase), a multisubunit enzyme that mediates acidification ofeukaryotic intracellular organelles. V-ATPase dependent organelleacidification is necessary for such intracellular processes asprotein sorting, zymogen activation, receptor-mediated endocytosis,and synaptic vesicle proton gradient generation. V-ATPase iscomposed of a cytosolic V1 domain and a transmembrane V0 domain.The V1 domain consists of three A and three B subunits, two Gsubunits plus the C, D, E, F, and H subunits. The V1 domaincontains the ATP catalytic site. The V0 domain consists of fivedifferent subunits: a, c, c', c', and d. ATP6V0C encodes the V0subunit c.

ATP6V0C Antibody (C-term) Blocking Peptide - References

O'Callaghan, K.M., et al. J. Biol. Chem. 285(1):381-391(2010)You, H., et al. Cancer Lett. 280(1):110-119(2009)Lee, I., et al. J. Biol. Chem. 279(51):53007-53014(2004)Morel, N. Biol. Cell 95(7):453-457(2003)Smith, A.N., et al. Mol. Cell 12(4):801-803(2003)