10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.622.0609

ATP6V0A1 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP5109a

Specification

ATP6V0A1 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession Q93050

ATP6V0A1 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 535

Other Names
V-type proton ATPase 116 kDa subunit a isoform 1, V-ATPase 116 kDa isoform a1, Clathrin-coated vesicle/synaptic vesicle proton pump 116 kDa subunit, Vacuolar adenosine triphosphatase subunit Ac116, Vacuolar proton pump subunit 1, Vacuolar proton translocating ATPase 116 kDa subunit a isoform 1, ATP6V0A1, ATP6N1, ATP6N1A, VPP1

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.

ATP6V0A1 Antibody (N-term) Blocking Peptide - Protein Information

Name ATP6V0A1

Synonyms ATP6N1, ATP6N1A, VPP1

Function
Required for assembly and activity of the

ATP6V0A1 Antibody (N-term) Blocking Peptide - Background

ATP6V0A1 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 gene encodes one of three A subunit proteins and the encoded protein is associated with clathrin-coated vesicles.

ATP6V0A1 Antibody (N-term) Blocking Peptide - References

Antonacopoulou, A.G., et al. Anticancer Res. 28 (2B), 1221-1227 (2008) Norgett, E.E., et al. J. Biol. Chem. 282(19):14421-14427(2007)Chi, A., et al. J. Proteome Res. 5(11):3135-3144(2006)

vacuolar ATPase. Potential role in differential targeting and regulation of the enzyme for a specific organelle (By similarity).

Cellular Location
Cytoplasmic vesicle membrane; Multi-pass membrane protein. Melanosome. Note=Coated vesicle. Identified by mass spectrometry in melanosome fractions from stage I to stage IV

ATP6V0A1 Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides