

VATC Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP1926c**Specification****VATC Antibody (Center) Blocking Peptide -
Product Information**Primary Accession [P21283](#)**VATC Antibody (Center) Blocking Peptide -
Additional Information**

Gene ID 528

Other Names

V-type proton ATPase subunit C 1, V-ATPase subunit C 1, Vacuolar proton pump subunit C 1, ATP6V1C1, ATP6C, ATP6D, VATC

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP1926c](#) was selected from the Center region of human VATC. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

**VATC Antibody (Center) Blocking Peptide -
Protein Information**

Name ATP6V1C1

**VATC Antibody (Center) Blocking Peptide -
Background**

VATC is 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 one of two V1 domain C subunit proteins and is found ubiquitously. This C subunit is analogous but not homologous to gamma subunit of F-ATPases.

**VATC Antibody (Center) Blocking Peptide -
References**

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).Kawasaki-Nishi, S., et al., FEBS Lett. 545(1):76-85 (2003).Nishi, T., et al., Nat. Rev. Mol. Cell Biol. 3(2):94-103 (2002).

Synonyms ATP6C, ATP6D, VATC

Function

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.

Tissue Location

Ubiquitous..

VATC Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)