

**ATP12A Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP8687c****Specification**

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**ATP12A Antibody (Center) Blocking Peptide - Product Information**Primary Accession [P54707](#)**ATP12A Antibody (Center) Blocking Peptide - Additional Information**

Gene ID 479

**Other Names**

Potassium-transporting ATPase alpha chain 2, Non-gastric H(+)/K(+) ATPase subunit alpha, Proton pump, ATP12A, ATP1AL1

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP8687c](/products/AP8687c) was selected from the Center region of human ATP12A. 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.

**ATP12A Antibody (Center) Blocking Peptide - Protein Information****Name** ATP12A {ECO:0000303|PubMed:29391451, ECO:0000312|HGNC:HGNC:13816}**Function**

The catalytic subunit of a H(+)/K(+) ATPase and/or Na(+)/K(+) ATPase pump which transports K(+) ions in exchange for Na(+) and/or H(+) ions across the apical membrane of epithelial cells. Uses ATP as an energy source to pump K(+) ions into the cell while transporting Na(+) and/or H(+) ions to the extracellular compartment (PubMed: [11341842](http://www.uniprot.org/citations/11341842), PubMed: [7485470](http://www.uniprot.org/citations/7485470), PubMed: [8853415](http://www.uniprot.org/citations/8853415), PubMed: [9774385](http://www.uniprot.org/citations/9774385)). Involved in the maintenance of electrolyte homeostasis through K(+) ion absorption in kidney and colon (By similarity). In the airway epithelium, may play a primary role in mucus acidification regulating its viscosity and clearance (PubMed: [29391451](http://www.uniprot.org/citations/29391451)).

**Cellular Location**

Apical cell membrane; Multi-pass membrane protein

**Tissue Location**

Expressed in airway epithelial cells (at protein level) (PubMed:29391451). Found in skin and kidney. Detected in prostate basal cells (at protein level). Expression is increased in benign prostate hyperplasia and tumor tissues (at protein level)

**ATP12A Antibody (Center) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**ATP12A Antibody (Center) Blocking Peptide - Images****ATP12A Antibody (Center) Blocking Peptide - Background**

ATP12A belongs to the family of P-type cation transport ATPases. This protein is a catalytic subunit of the ouabain-sensitive H<sup>+</sup>/K<sup>+</sup> -ATPase that catalyzes the hydrolysis of ATP coupled with the exchange of H(+) and K(+) ions across the plasma membrane. It is also responsible for potassium absorption in various tissues.

**ATP12A Antibody (Center) Blocking Peptide - References**

Li,J., et.al., Kidney Int. 65 (4), 1301-1310 (2004)