

ATP1AL1 Polyclonal Antibody
Catalog # AP73282**Specification**

ATP1AL1 Polyclonal Antibody - Product Information

Application	WB
Primary Accession	P54707
Reactivity	Human, Rat
Host	Rabbit
Clonality	Polyclonal

ATP1AL1 Polyclonal Antibody - Additional Information**Gene ID** 479**Other Names**

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

Dilution

WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other applications.

Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions

-20°C

ATP1AL1 Polyclonal Antibody - 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, PubMed:7485470, PubMed:8853415, PubMed: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).

Cellular Location

Apical cell membrane; Multi-pass membrane protein

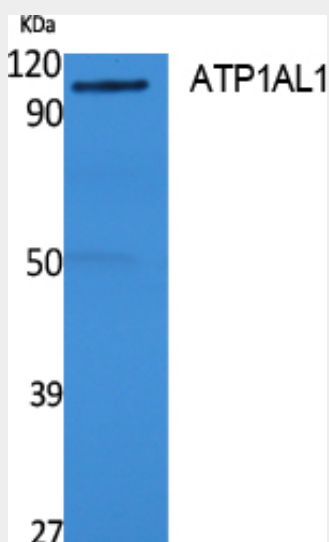
Tissue Location

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)

ATP1A1 Polyclonal Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

ATP1A1 Polyclonal Antibody - Images

Western Blot analysis of extracts from rat stomach, using ATP1A1 Polyclonal Antibody.. Secondary antibody was diluted at 1:20000

ATP1A1 Polyclonal Antibody - Background

Catalyzes the hydrolysis of ATP coupled with the exchange of H(+) and K(+) ions across the plasma membrane. Responsible for potassium absorption in various tissues.