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ATP1AL1 Polyclonal Antibody

Catalog # AP73282

Product Information

Application	WB, E
Primary Accession	P54707
Reactivity	Human, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	115511

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. E~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20℃

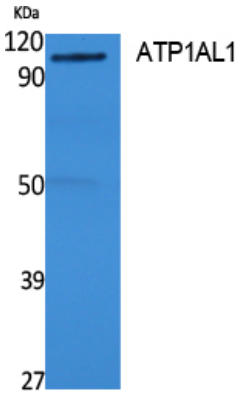
Protein Information

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)

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.

Images



Western Blot analysis of extracts from rat stomach, using ATP1AL1 Polyclonal Antibody.. Secondary antibody was diluted at 1:20000

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.