

ATP6AP1 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51879**Specification**

ATP6AP1 Antibody - Product Information

Application	WB, E
Primary Accession	Q15904
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	52 KDa

ATP6AP1 Antibody - Additional Information**Gene ID** 537**Other Names**

V-type proton ATPase subunit S1, V-ATPase subunit S1, Protein XAP-3, V-ATPase Ac45 subunit, V-ATPase S1 accessory protein, Vacuolar proton pump subunit S1, ATP6AP1, ATP6IP1, ATP6S1, VATPS1, XAP3

Dilution

WB~~1:1000

E~~N/A

Format

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage

Store at -20 °C. Stable for 12 months from date of receipt

ATP6AP1 Antibody - Protein Information**Name** ATP6AP1**Synonyms** ATP6IP1, ATP6S1, VATPS1, XAP3**Function**

Accessory subunit of the proton-transporting vacuolar (V)-ATPase protein pump, which is required for luminal acidification of secretory vesicles (PubMed: [33065002](http://www.uniprot.org/citations/33065002)). Guides the V-type ATPase into specialized subcellular compartments, such as neuroendocrine regulated secretory vesicles or the ruffled border of the osteoclast, thereby regulating its activity (PubMed: [27231034](http://www.uniprot.org/citations/27231034)). Involved in membrane trafficking and Ca(2+)-dependent membrane fusion (PubMed: [27231034](http://www.uniprot.org/citations/27231034)). May play a role in the assembly of the V-type ATPase complex (Probable). In aerobic conditions, involved in

intracellular iron homeostasis, thus triggering the activity of Fe(2+) prolyl hydroxylase (PHD) enzymes, and leading to HIF1A hydroxylation and subsequent proteasomal degradation (PubMed:28296633). In islets of Langerhans cells, may regulate the acidification of dense-core secretory granules (By similarity).

Cellular Location

Endoplasmic reticulum membrane; Single-pass type I membrane protein. Endoplasmic reticulum-Golgi intermediate compartment membrane. Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane {ECO:0000250|UniProtKB:O54715}; Single-pass type I membrane protein. Cytoplasmic vesicle, clathrin-coated vesicle membrane {ECO:0000250|UniProtKB:O54715}; Single-pass type I membrane protein. Note=Not detected in trans-Golgi network.

Tissue Location

widely expressed, with highest levels in brain and lowest in liver and duodenum.

ATP6AP1 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](#)

ATP6AP1 Antibody - Images

ATP6AP1 Antibody - Background

Vacuolar ATPase is responsible for acidifying a variety of intracellular compartments in eukaryotic cells (By similarity).

ATP6AP1 Antibody - References

Chen E.Y.,et al.Hum. Mol. Genet. 5:659-668(1996).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Ross M.T.,et al.Nature 434:325-337(2005).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
Yokoi H.,et al.Genomics 20:404-411(1994).