

ATP6V1B1 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51878

Specification

ATP6V1B1 Antibody - Product Information

Application	WB, E
Primary Accession	P15313
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	58 KDa

ATP6V1B1 Antibody - Additional Information

Gene ID 525

Other Names

V-type proton ATPase subunit B, kidney isoform, V-ATPase subunit B 1, Endomembrane proton pump 58 kDa subunit, Vacuolar proton pump subunit B 1, ATP6V1B1, ATP6B1, VATB, VPP3

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

ATP6V1B1 Antibody - Protein Information

Name ATP6V1B1

Synonyms ATP6B1, VATB, VPP3

Function

Non-catalytic subunit of the V1 complex of vacuolar(H⁺)- ATPase (V-ATPase), a multisubunit enzyme composed of a peripheral complex (V1) that hydrolyzes ATP and a membrane integral complex (V0) that translocates protons (PubMed:16769747). V-ATPase is responsible for acidifying and maintaining the pH of intracellular compartments and in some cell types, is targeted to the plasma membrane, where it is responsible for acidifying the extracellular environment (PubMed:32001091). Essential for the proper assembly and activity of V- ATPase (PubMed:16769747). In renal intercalated cells, mediates secretion of protons (H⁺) into the urine thereby ensuring correct urinary acidification (PubMed:16769747). Required for optimal olfactory function by mediating the acidification of the nasal olfactory epithelium (By similarity).

Cellular Location

Apical cell membrane. Basolateral cell membrane {ECO:0000250|UniProtKB:Q91YH6}

Tissue Location

Kidney; localizes to early distal nephron, encompassing thick ascending limbs and distal convoluted tubules (at protein level) (PubMed:16769747, PubMed:29993276). Expressed in the cochlea and endolymphatic sac (PubMed:9916796)

ATP6V1B1 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](#)

ATP6V1B1 Antibody - Images**ATP6V1B1 Antibody - Background**

Non-catalytic subunit of the peripheral V1 complex of vacuolar ATPase. V-ATPase is responsible for acidifying a variety of intracellular compartments in eukaryotic cells.

ATP6V1B1 Antibody - References

Suedhof T.C., et al. Proc. Natl. Acad. Sci. U.S.A. 86:6067-6071(1989).
Ota T., et al. Nat. Genet. 36:40-45(2004).
Suzuki Y., et al. Submitted (APR-2005) to the EMBL/GenBank/DDBJ databases.
Mural R.J., et al. Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
Pushkin A., et al. Am. J. Physiol. 284:C667-C673(2003).