

Anti-ATP6V0A2 Antibody
Catalog # AP53844**Specification**

Anti-ATP6V0A2 Antibody - Product Information

Application	WB
Primary Accession	Q9Y487
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	98082

Anti-ATP6V0A2 Antibody - Additional Information**Gene ID** 23545**Other Names**

V-type proton ATPase 116 kDa subunit a isoform 2; V-ATPase 116 kDa isoform a2; Lysosomal H(+)-transporting ATPase V0 subunit a2; TJ6; Vacuolar proton translocating ATPase 116 kDa subunit a isoform 2

Target/Specificity

Recognizes endogenous levels of ATP6V0A2 protein.

Dilution

WB~~1/500 - 1/1000

Format

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage

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

Anti-ATP6V0A2 Antibody - Protein Information**Name** ATP6V0A2**Function**

Subunit of the V0 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 (By similarity). 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 (By similarity). Essential component of the endosomal pH-sensing machinery (PubMed:16415858). May play a role in maintaining the Golgi functions, such as glycosylation maturation, by controlling the Golgi pH (PubMed:<a href="http://www.uniprot.org/citations/18157129"

target="_blank">18157129). 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).

Cellular Location

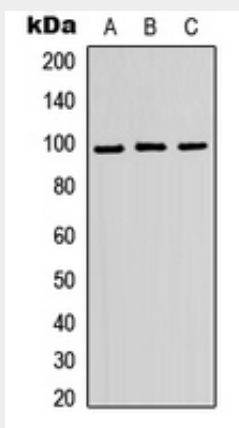
Cell membrane; Multi-pass membrane protein. Endosome membrane. Note=In kidney proximal tubules, also detected in subapical vesicles.

Anti-ATP6V0A2 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](#)

Anti-ATP6V0A2 Antibody - Images



Western blot analysis of ATP6V0A2 expression in HEK293T (A), Raw264.7 (B), H9C2 (C) whole cell lysates.

Anti-ATP6V0A2 Antibody - Background

Rabbit polyclonal antibody to ATP6V0A2