

**ATP6V0A4 Antibody (aa53-295)**  
**Rabbit Polyclonal Antibody**  
**Catalog # ALS16894****Specification**

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**ATP6V0A4 Antibody (aa53-295) - Product Information**

Application	IHC, WB
Primary Accession	<a href="#">O9HBG4</a>
Other Accession	<a href="#">50617</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	96386

**ATP6V0A4 Antibody (aa53-295) - Additional Information****Gene ID** 50617**Other Names**

ATP6V0A4, ATP6N1B, Renal tubular acidosis, RTA1C, STV1, V-ATPase 116 kDa, V-ATPase alpha 4, RTADR, ATP6N2, RDRTA2, V-ATPase 116 kDa isoform a4, VPH1, VPP2

**Target/Specificity**

Human ATP6V0A4

**Reconstitution & Storage**

0.1 M Tris-glycine, pH 7.0, 10% glycerol, 0.01% Thimerosal. Keep as concentrated solution. Aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

**Precautions**

ATP6V0A4 Antibody (aa53-295) is for research use only and not for use in diagnostic or therapeutic procedures.

**ATP6V0A4 Antibody (aa53-295) - Protein Information****Name** ATP6V0A4**Synonyms** ATP6N1B, ATP6N2**Function**

Subunit of the V0 complex of vacuolar(H<sup>+</sup>)-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). Involved in normal vectorial acid transport into the urine by the kidney (PubMed:<a href="http://www.uniprot.org/citations/10973252" target="\_blank">10973252</a>, PubMed:<a

<http://www.uniprot.org/citations/12414817> target="\_blank">12414817</a>).

#### Cellular Location

Apical cell membrane; Multi-pass membrane protein. Basolateral cell membrane {ECO:0000250|UniProtKB:Q920R6}; Multi-pass membrane protein. Note=Localizes to the apical surface of alpha- intercalated cells in the cortical collecting ducts of the distal nephron (PubMed:10973252). Localizes to the basolateral surface of beta-intercalated cells in the cortical collecting ducts of the distal nephron (By similarity). {ECO:0000250|UniProtKB:Q920R6, ECO:0000269|PubMed:10973252}

#### Tissue Location

Expressed in adult and fetal kidney. Found in the inner ear.

#### Volume

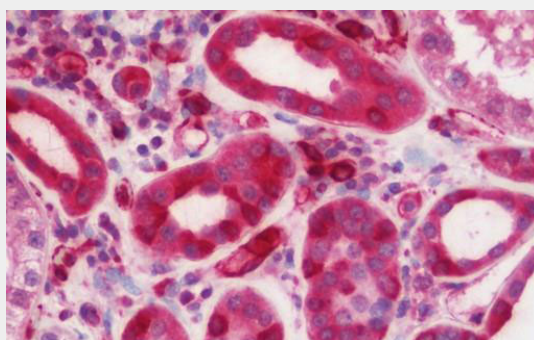
50 µl

### ATP6V0A4 Antibody (aa53-295) - Protocols

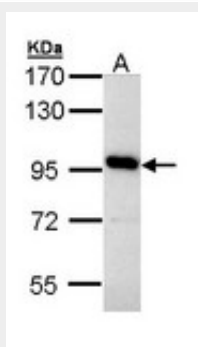
Provided below are standard protocols that you may find useful for product applications.

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

### ATP6V0A4 Antibody (aa53-295) - Images



Anti-ATP6V0A4 antibody IHC staining of human kidney.



Sample (30 ug of whole cell lysate). A: Hep G2 . 7.5% SDS PAGE. ATP6V0A4 antibody diluted at 1:3000.

#### **ATP6V0A4 Antibody (aa53-295) - Background**

Part of the proton channel of the V-ATPase that is involved in normal vectorial acid transport into the urine by the kidney.

#### **ATP6V0A4 Antibody (aa53-295) - References**

Smith A.N.,et al.Nat. Genet. 26:71-75(2000).

Ota T.,et al.Nat. Genet. 36:40-45(2004).

Hillier L.W.,et al.Nature 424:157-164(2003).

Scherer S.W.,et al.Science 300:767-772(2003).

Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.