

ATP6V1G1 / ATP6J Antibody
Rabbit Polyclonal Antibody
Catalog # ALS16468**Specification****ATP6V1G1 / ATP6J Antibody - Product Information**

Application	IHC
Primary Accession	O75348
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	14kDa KDa

ATP6V1G1 / ATP6J Antibody - Additional Information**Gene ID** 9550**Other Names**

V-type proton ATPase subunit G 1, V-ATPase subunit G 1, V-ATPase 13 kDa subunit 1, Vacuolar proton pump subunit G 1, Vacuolar proton pump subunit M16, ATP6V1G1, ATP6G, ATP6G1, ATP6J

Target/Specificity

Human ATP6V1G1 / ATP6J

Reconstitution & Storage

Aliquot and store at -20°C or -80°C. Avoid freeze-thaw cycles.

Precautions

ATP6V1G1 / ATP6J Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

ATP6V1G1 / ATP6J Antibody - Protein Information**Name** ATP6V1G1**Synonyms** ATP6G, ATP6G1, ATP6J**Function**

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:33065002, PubMed:32001091). 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). 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

Apical cell membrane

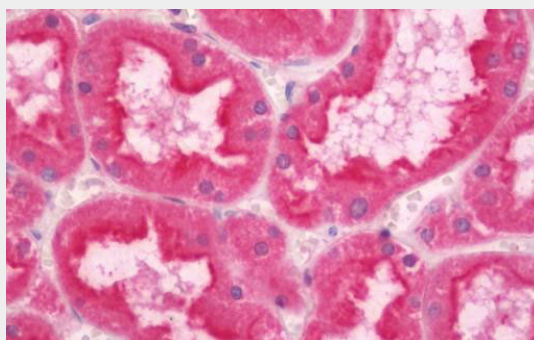
Tissue Location

Kidney; localizes to early distal nephron, encompassing thick ascending limbs and distal convoluted tubules (at protein level) (PubMed:29993276). Ubiquitous (PubMed:12384298)

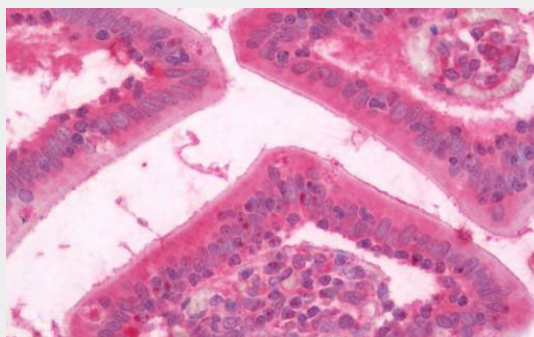
ATP6V1G1 / ATP6J Antibody - Protocols

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](#)

ATP6V1G1 / ATP6J Antibody - Images

Human Kidney: Formalin-Fixed, Paraffin-Embedded (FFPE)



Human Small Intestine: Formalin-Fixed, Paraffin-Embedded (FFPE)

ATP6V1G1 / ATP6J Antibody - Background

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

ATP6V1G1 / ATP6J Antibody - References

Mao M.,et al.Proc. Natl. Acad. Sci. U.S.A. 95:8175-8180(1998).
Ebert L.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.
Humphray S.J.,et al.Nature 429:369-374(2004).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
Kanor S.,et al.Submitted (DEC-2005) to UniProtKB.