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ATP6V1B2 antibody - middle region
Rabbit Polyclonal Antibody
Catalog # AI13934

Specification

ATP6V1B2 antibody - middle region - Product Information

Application	**WB**
Primary Accession	P21281
Other Accession	NM_001693, NP_001684
Reactivity	**Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Guinea Pig, Dog**
Predicted	**Human, Mouse, Rabbit, Pig, Chicken, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**56kDa KDa**

ATP6V1B2 antibody - middle region - Additional Information

Gene ID 526

Alias Symbol	**ATP6B1B2, ATP6B2, HO57, VATB, VPP3, Vma2**

Other Names
V-type proton ATPase subunit B, brain isoform, V-ATPase subunit B 2, Endomembrane proton pump 58 kDa subunit, HO57, Vacuolar proton pump subunit B 2, ATP6V1B2, ATP6B2, VPP3

Format
Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage
Add 50 ul of distilled water. Final anti-ATP6V1B2 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions
ATP6V1B2 antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

ATP6V1B2 antibody - middle region - Protein Information

Name ATP6V1B2

Synonyms ATP6B2, 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:33065002). 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 renal intercalated cells, can partially compensate the lack of ATP6V1B1 and mediate secretion of protons (H+) into the urine under base-line conditions but not in conditions of acid load (By similarity).

Cellular Location
Apical cell membrane. Melanosome. Cytoplasm {ECO:0000250|UniProtKB:P62814}. Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane {ECO:0000250|UniProtKB:P62815}; Peripheral membrane protein. Cytoplasmic vesicle, clathrin-coated vesicle membrane {ECO:0000250|UniProtKB:P62815}; Peripheral membrane protein. Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV

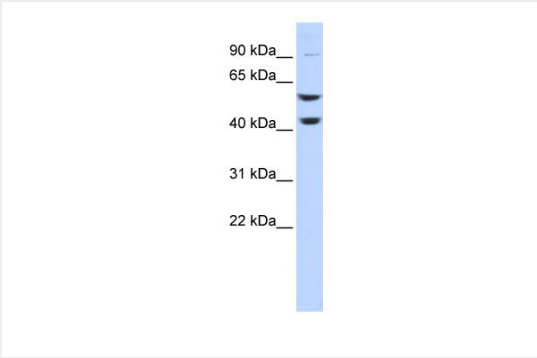
Tissue Location
Kidney; localizes to early distal nephron, encompassing thick ascending limbs and distal convoluted tubules (at protein level).

ATP6V1B2 antibody - middle region - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

ATP6V1B2 antibody - middle region - Images



WB Suggested Anti-ATP6V1B2 Antibody Titration: 0.2-1 µg/ml
ELISA Titer: 1:1562500
Positive Control: Hela cell lysate

ATP6V1B2 antibody - middle region - References

Nelson R.D.,et al.Proc. Natl. Acad. Sci. U.S.A. 89:3541-3545(1992).
van Hille B.,et al.Biochem. J. 303:191-198(1994).
Ota T.,et al.Nat. Genet. 36:40-45(2004).

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Lee B.S.,et al.J. Biol. Chem. 270:7320-7329(1995).