

# ATP6V1B2 antibody - middle region

Rabbit Polyclonal Antibody

Catalog # AI13934

## Product Information

<b>Application</b>	WB
<b>Primary Accession</b>	<a href="#">P21281</a>
<b>Other Accession</b>	<a href="#">NM_001693</a> , <a href="#">NP_001684</a>
<b>Reactivity</b>	Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Dog, Guinea Pig, Horse, Bovine
<b>Predicted</b>	Human, Mouse, Rabbit, Zebrafish, Pig, Chicken, Dog
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	56501

## Additional Information

<b>Gene ID</b>	526
<b>Alias Symbol</b>	ATP6B1B2, ATP6B2, HO57, VATB, VPP3, Vma2
<b>Other Names</b>	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
<b>Format</b>	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
<b>Reconstitution &amp; Storage</b>	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.
<b>Precautions</b>	ATP6V1B2 antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

<b>Name</b>	ATP6V1B2
<b>Synonyms</b>	ATP6B2, VPP3
<b>Function</b>	Non-catalytic subunit of the V1 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 (PubMed: <a href="#">33065002</a> ). 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: <a href="#">32001091</a> ). In renal intercalated cells, can

partially compensate the lack of ATP6V1B1 and mediate secretion of protons (H<sup>+</sup>) 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).

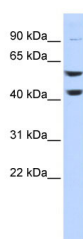
## References

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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).  
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.  
Lee B.S.,et al.J. Biol. Chem. 270:7320-7329(1995).

## Images

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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.