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ATP6V1B2 antibody - middle region

Rabbit Polyclonal Antibody
Catalog # AI13934

Product Information

Application	WB
Primary Accession	P21281
Other Accession	NM_001693, NP_001684
Reactivity	Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Dog, Guinea Pig, Horse, Bovine
Predicted	Human, Mouse, Rabbit, Zebrafish, Pig, Chicken, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	56501

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.

Protein Information

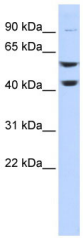
Name	ATP6V1B2
Synonyms	ATP6B2, VPP3
Function	Non-catalytic subunit of the V1 complex of vacuolar(H+)- ATPase (V-ATPase), a multisubunit enzyme composed of a peripheral complex (V1) that hydrolyzes ATP and a membrane integral complex (V0) that translocates protons (PubMed:33065002). V-ATPase is responsible for acidifying and maintaining the pH of intracellular compartments and in some cell types, is targeted to the plasma membrane, where it promotes acidification of the extracellular environment (PubMed:32001091). The V-ATPase complex also

	acts as an activator for mTORC1 on lysosomal membrane by promoting the guanine nucleotide exchange factor (GEF) of the Ragulator complex, thereby enabling mTORC1 recruitment (PubMed:22053050). 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).

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).
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



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'.