10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

ATP6V1B2 Antibody (clone 2A5)

Mouse Monoclonal Antibody

Catalog # ALS14513

Specification

ATP6V1B2 Antibody (clone 2A5) - Product Information

Application	**WB, IHC**
Primary Accession	P21281
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Calculated MW	**57kDa KDa**

ATP6V1B2 Antibody (clone 2A5) - Additional Information

Gene ID 526

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

Target/Specificity
Human ATP6V1B2

Reconstitution & Storage
Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

Precautions
ATP6V1B2 Antibody (clone 2A5) is for research use only and not for use in diagnostic or therapeutic procedures.

ATP6V1B2 Antibody (clone 2A5) - 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

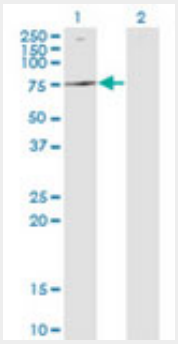
Tissue Location
Kidney; localizes to early distal nephron, encompassing thick ascending limbs and distal convoluted tubules (at protein level).

ATP6V1B2 Antibody (clone 2A5) - Protocols

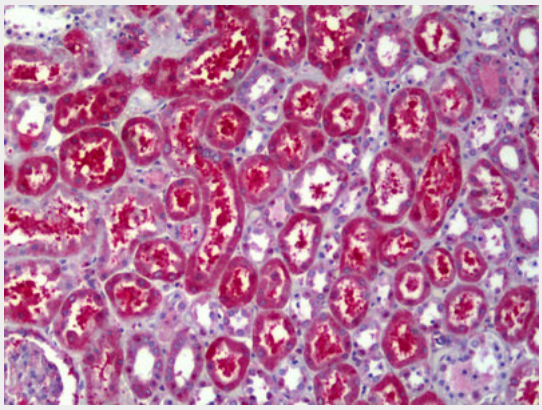
Provided below are standard protocols that you may find useful for product applications.

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

ATP6V1B2 Antibody (clone 2A5) - Images



Western blot of ATP6V1B2 expression in transfected 293T cell line by ATP6V1B2 monoclonal...



Anti-ATP6V1B2 antibody IHC of human kidney, tubules.

ATP6V1B2 Antibody (clone 2A5) - Background

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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

ATP6V1B2 Antibody (clone 2A5) - 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).