

Anti-ATP6V1B2 Antibody (clone 1E11)

Mouse Anti Human Monoclonal Antibody

Catalog # ALS17375

Product Information

Application	WB, IHC-P
Primary Accession	P21281
Predicted	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2a
Clone Names	1E11
Calculated MW	56501
Concentration (mg/ml)	1 mg/ml

Additional Information

Gene ID	526
Alias Symbol	ATP6V1B2
Other Names	ATP6V1B2, ATP6B1B2, ATP6B2, V-ATPase subunit B 2, Vma2, VATB, VPP3, HO57, V-ATPase B2 subunit
Target/Specificity	Human ATP6V1B2
Reconstitution & Storage	PBS, pH 7.3, 1% BSA, 50% glycerol, 0.02% sodium azide Store at -20°C. Minimize freezing and thawing.
Precautions	Anti-ATP6V1B2 Antibody (clone 1E11) 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 Regulator 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).

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