

ATP6V1E1 Rabbit pAb

Catalog # AP53527

Product Information

Application	WB, IHC, FC, IP
Primary Accession	P36543
Reactivity	Rat
Host	Rabbit
Clonality	Polyclonal Antibody
Calculated MW	26145

Additional Information

Gene ID	529
Other Names	V-type proton ATPase subunit E 1, V-ATPase subunit E 1, V-ATPase 31 kDa subunit, p31, Vacuolar proton pump subunit E 1, ATP6V1E1, ATP6E, ATP6E2
Dilution	WB~~1:1000 IHC~~1:100~500 FC~~1:10~50 IP~~N/A
Format	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

Name	ATP6V1E1
Synonyms	ATP6E, ATP6E2
Function	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:32001091, 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, PubMed:39695235).
Cellular Location	Apical cell membrane; Peripheral membrane protein. Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane {ECO:0000250 UniProtKB:Q6PCU2}; Peripheral membrane protein.

Cytoplasmic vesicle, clathrin-coated vesicle membrane {ECO:0000250|UniProtKB:Q6PCU2}; Peripheral membrane protein. Lysosome membrane; Peripheral membrane protein

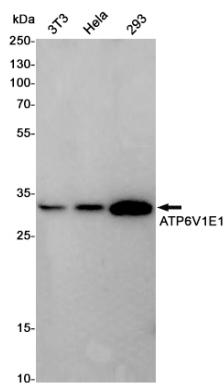
Tissue Location

Kidney; localizes to early distal nephron, encompassing thick ascending limbs and distal convoluted tubules (at protein level) (PubMed:29993276). Ubiquitous (PubMed:12036578). High expression in the skin (PubMed:28065471).

Background

Swiss-Prot Acc.P36543.

Images



Western blot detection of ATP6V1E1 in 3T3,HeLa,293 cell lysates using ATP6V1E1 Rabbit pAb(1:1000 diluted).Predicted band size:26KDa.Observed band size:26KDa.

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