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

Anti-ATP6V0D1 Antibody

Catalog # AP50719

Product Information

Application	WB
Primary Accession	P61421
Reactivity	Human, Mouse, Rat, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	40329

Additional Information

Gene ID	9114
Other Names	ATP6D; VPATPD; V-type proton ATPase subunit d 1; V-ATPase subunit d 1; 32 kDa accessory protein; V-ATPase 40 kDa accessory protein; V-ATPase AC39 subunit; p39; Vacuolar proton pump subunit d 1
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human ATP6V0D1. The exact sequence is proprietary.
Dilution	WB~~ 1:1000
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

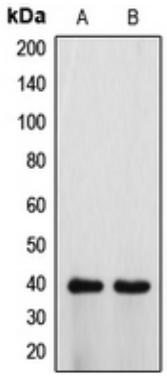
Name	ATP6V0D1 (HGNC:13724)
Synonyms	ATP6D, VPATPD
Function	Subunit of the V0 complex of vacuolar(H+)-ATPase (V-ATPase), a multisubunit enzyme composed of a peripheral complex (V1) that hydrolyzes ATP and a membrane integral complex (V0) that translocates protons (PubMed:28296633, PubMed:30374053, PubMed:33065002). 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:30374053). 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). May play a role in coupling of proton transport and ATP hydrolysis (By similarity). In aerobic conditions, involved in

	intracellular iron homeostasis, thus triggering the activity of Fe(2+) prolyl hydroxylase (PHD) enzymes, and leading to HIF1A hydroxylation and subsequent proteasomal degradation (PubMed:28296633). May play a role in cilium biogenesis through regulation of the transport and the localization of proteins to the cilium (By similarity).
Cellular Location	Membrane; Peripheral membrane protein; Cytoplasmic side. Lysosome membrane; Peripheral membrane protein. Cytoplasmic vesicle, clathrin-coated vesicle membrane {ECO:0000250|UniProtKB:P61420}; Peripheral membrane protein. Note=Localizes to centrosome and the base of the cilium. {ECO:0000250|UniProtKB:Q6PGV1}
Tissue Location	Ubiquitous.

References

van Hille B.,et al.Biochem. Biophys. Res. Commun. 197:15-21(1993).
Agarwal A.K.,et al.Biochem. Biophys. Res. Commun. 279:543-547(2000).
Bhat K.S.,et al.Submitted (NOV-1992) to the EMBL/GenBank/DDBJ databases.
Smith A.N.,et al.Gene 297:169-177(2002).
Burkard T.R.,et al.BMC Syst. Biol. 5:17-17(2011).

Images



Western blot analysis of ATP6V0D1 expression in HeLa (A), H9C2 (B) whole cell lysates. (Predicted band size: 40 kD; Observed band size: 40 kD)

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