

Rabbit ATP6AP1 Polyclonal Antibody | anti-ATP6AP1 antibody

ATP6AP1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326117	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

ATP6AP1; Polyclonal Antibody; ATP6AP1 Antibody; 16A; Ac45; ATP6IP1; ATP6S1; ATPase H⁺ transporting lysosomal (vacuolar proton pump) subunit 1; ATPase H⁺ transporting lysosomal accessory protein 1; ATPase H⁺ transporting lysosomal interacting protein 1; CF2; H ATPase subunit; MGC129781; ORF; Protein XAP 3; Protein XAP3; V ATPase Ac45 subunit; V ATPase S1 accessory protein; V ATPase subunit S1; V type proton ATPase subunit S1; Vacuolar ATP synthase subunit S1; Vacuolar proton pump subunit S1; VATPS1; XAP 3; XAP3; anti-ATP6AP1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	ATP6AP1 antibody detects endogenous levels of total ATP6AP1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	470
Applicable Applications for anti-ATP6AP1 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human ATP6AP1
Subcellular Location	Vacuole Membrane. Single-Pass Membrane Protein.
Tissue Specificity	widely expressed, with highest levels in brain and lowest in liver and duodenum.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog
Similarity	Pig (100%), Bovine (100%), Horse (92%), Sheep (100%), Rabbit (100%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of Mouse kidney lysate, using ATP6AP1 Antibody. The lane on the left is treated with the antigen-specific peptide.



IHC (Immunohistochemistry)

AAA326117 at 1/100 staining Mouse liver tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-ATP6AP1 antibody

Description: This gene encodes a component of a multisubunit enzyme (1 mDa MW) that mediates acidification of eukaryotic intracellular organelles. Vacuolar ATPase (V-ATPase) is comprised of a cytosolic V1 (site of the ATP catalytic site) and a transmembrane V0 domain. V-ATPase dependent organelle acidification is necessary for such intracellular processes as protein sorting, zymogen activation, and receptor-mediated endocytosis. The encoded protein of this gene is approximately 45 kD and may assist in the V-ATPase-mediated acidification of neuroendocrine secretory granules. [provided by RefSeq, Jul 2008]

Function: Accessory subunit of the proton-transporting vacuolar (V)-ATPase protein pump, which is required for luminal acidification of secretory vesicles. Guides the V-type ATPase into specialized subcellular compartments, such as neuroendocrine regulated secretory vesicles or the ruffled border of the osteoclast, thereby regulating its activity. Involved in membrane trafficking and Ca2+-dependent membrane fusion. May play a role in the assembly of the V-type ATPase complex. In aerobic conditions, involved in intracellular iron homeostasis, thus triggering the activity of Fe2+ prolyl hydroxylase (PHD) enzymes, and leading to HIF1A hydroxylation and subsequent proteasomal degradation (PubMed:28296633).

Subunit Structure: Accessory component of the multisubunit proton-transporting vacuolar (V)-ATPase protein pump.

Post-translational Modifications: N-glycosylated.

Similarity: Belongs to the vacuolar ATPase subunit S1 family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	17136148
NCBI GeneID	537
NCBI Accession #	NP_001174.2
NCBI GenBank Nucleotide #	NM_001183.5
UniProt Accession #	Q15904; Q8NBT4; Q9H0C7; A6ZKI4
Molecular Weight	Observed: 52 kDa Predicted: 53 kDa
NCBI Official Full Name	V-type proton ATPase subunit S1
NCBI Official Synonym Full Names	ATPase H+ transporting accessory protein 1
NCBI Official Symbol	ATP6AP1
NCBI Official Synonym Symbols	16A; CF2; Ac45; XAP3; XAP-3; ATP6S1; VATPS1; ATP6IP1
NCBI Protein Information	V-type proton ATPase subunit S1
UniProt Protein Name	V-type proton ATPase subunit S1
UniProt Gene Name	ATP6AP1
UniProt Synonym Gene Names	ATP6IP1; ATP6S1; VATPS1; XAP3; V-ATPase subunit S1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

