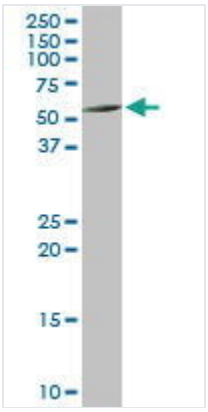
ATP6AP1 Antibody – Rabbit Polyclonal

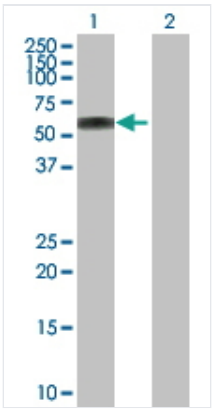
PRODUCT OVERVIEW

Product Name	ATP6AP1, Polyclonal Antibody
Full Product Name	ATP6AP1 (V-type Proton ATPase Subunit S1, V-ATPase Subunit S1, Protein XAP-3, V-ATPase Ac45 Subunit, V-ATPase S1 Accessory Protein, Vacu
Product Gene Name	anti-ATP6AP1 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with R-Phycoerythrin (PE).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human ATP6AP1.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo
Molecular Weight	52,026 Da
OMIM	300197
3D Structure	ModBase 3D Structure for Q15904
Immunogen	Full length human ATP6AP1, aa1-470 (NP_001174.2).
Immunogen Sequence	MMAAMATARVRMGPRCAQALWRMPWLPVFLSLAAAAAAAAAEQQVPLVLWSSDRDLWAPAADTHEGHITSDLQLSTYLDPALELGPRNVLLFLQDKLS
Conjugate	PE
Note	Preservative Free
Product Categories/Family for anti-ATP6AP1 antibody	Antibodies; Enzymes; ATPase
Applications Tested/Suitable for anti-ATP6AP1 antibody	Western Blot (WB)
Application Notes for anti-ATP6AP1 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-ATP6AP1 antibody	ATP6AP1 is a component of vacuolar ATPase (V-ATPase), a multisubunit enzyme, which is responsible for acidifying a variety of intracellular compartr
Other Notes	Small volumes of anti-ATP6AP1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If nec

Searchable Terms for ATP6AP1 purchase	MBS6370726 is an antibody targeting ATP6AP1. Also known as ATP6AP1 (V-type Proton ATPase Subunit S1, V-ATPase Subunit S1, Protein XAP-3,



Western Blot (WB) of anti-ATP6AP1 antibody
ATP6AP1 rabbit polyclonal antibody. Western Blot analysis of ATP6AP1 expression in human kidney.



Western Blot (WB) of anti-ATP6AP1 antibody
Western Blot analysis of ATP6AP1 expression in transfected 293T cell line by ATP6AP1 polyclonal antibody. Lane 1: ATP6AP1 transfected lysate (52kD). Lane 2: Non-transfected lysate.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ATP6AP1. It may not necessarily be applicable to this product.

NCBI GI #	17136148
NCBI GeneID	537
NCBI Accession #	NP_001174.2
UniProt Primary Accession #	Q15904
UniProt Secondary Accession #	Q8NBT4; Q9H0C7; A6ZKI4
UniProt Related Accession #	Q15904
GenBank Nucleotide #	NM_001183.4
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
UniProt Protein Name	V-type proton ATPase subunit S1
UniProt Synonym Protein Names	Protein XAP-3; V-ATPase Ac45 subunit; V-ATPase S1 accessory protein; Vacuolar proton pump subunit S1
Protein Family	V-type proton ATPase
UniProt Gene Name	ATP6AP1
UniProt Synonym Gene Names	ATP6IP1; ATP6S1; VATPS1; XAP3; V-ATPase subunit S1
UniProt Entry Name	VAS1_HUMAN
NCBI Protein Information	V-type proton ATPase subunit S1

NCBI Summary for ATP6AP1	This gene encodes a component of a multisubunit enzyme 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 may assist in the V-ATPase-mediated acidification of neuroendocrine secretory granules. This protein may also play a role in early development. [provided by RefSeq, Aug 2013]
UniProt Comments for ATP6AP1	ATP6AP1: Vacuolar ATPase is responsible for acidifying a variety of intracellular compartments in eukaryotic cells. Belongs to the vacuolar ATPase subunit S1 family. Protein type: Transporter; EC 3.6.3.14; Energy Metabolism - oxidative phosphorylation; Hydrolase; Membrane protein, integral Chromosomal Location of Human Ortholog: Xq28 Cellular Component: vacuolar membrane; integral to membrane; endosome membrane; proton-transporting two-sector ATPase complex Molecular Function: transporter activity; hydrogen ion transporting ATP synthase activity, rotational mechanism; hydrogen ion transporting ATPase activity, rotational mechanism; Rab GTPase binding; ATP binding Biological Process: positive regulation of osteoblast differentiation; proton transport; cellular iron ion homeostasis; ATP hydrolysis coupled proton transport; pH reduction; insulin receptor signaling pathway; positive regulation of bone resorption; transferrin transport; transmembrane transport; establishment of organelle localization; positive regulation of exocytosis
Research Articles on ATP6AP1	**1.** ATP6AP1 is somatically mutated in 12% of follicular lymphoma tumors. Mutations clustered around the transmembrane domain.
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