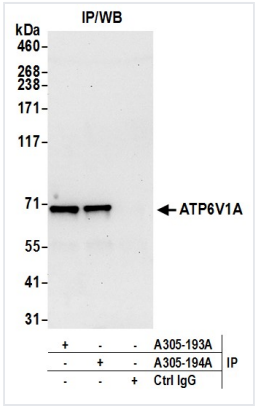
ATP6V1A Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ATP6V1A, Polyclonal Antibody
Full Product Name	Rabbit anti-ATP6V1A Antibody, Affinity Purified
Product Gene Name	anti-ATP6V1A antibody
Product Synonym Names	vacuolar proton pump alpha subunit 1; vacuolar proton pump subunit alpha; V-ATPase 69 kDa subunit; V-ATPase 69 kDa subunit 1; V-ATPase A subunit 1; V-ATPase subunit A; Vma1; V-type proton ATPase catalytic subunit A; H(+)-transporting two-sector ATPase, subunit A; vacuolar ATPase isoform VA68; VPP2; ATPase, H+ transporting, lysosomal 70kDa, V1 subunit A; HO68; vacuolar ATP synthase catalytic subunit A, ubiquitous isoform; ATP6V1A1; ATPase, H+ transporting, lysosomal, subunit A1; H+-transporting ATPase chain A, vacuolar (VA68 type); ARCL2D; IECEE3; VA68; ATP6A1; V-type proton ATPase catalytic subunit A; ATPase H+ transporting V1 subunit A
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid. Whole IgG. Tris-citrate/phosphate buffer, pH 7 to 8 containing 0.09% Sodium Azide
Purity/Purification	Antigen Affinity Purified
Concentration	1000ug/ml (lot specific)
Preparation and Storage	Store at 2-8 degree C Shelf Life: 1 year from date of receipt
Molecular Weight	64,736 Da
OMIM	607027
3D Structure	ModBase 3D Structure for P38606
Predicted Reactivity	Mouse, Chicken, Bovine, Pig, Orangutan
Immunogen	Between 450 and 500
Conjugation	Unconjugated
Product Categories/Family for anti-ATP6V1A antibody	Primary Antibodies
Applications Tested/Suitable for anti-ATP6V1A antibody	Immunoprecipitation (IP)
Application Notes for anti-ATP6V1A antibody	IP: 6ug/mg lysate
Related Product Information for anti-ATP6V1A antibody	The gene ATP6V1A encodes a component of vacuolar ATPase (V-ATPase), a multisubunit enzyme that mediates acidification of eukaryotic intracellular organelles. V-ATPase dependent organelle acidification is necessary for such intracellular processes as protein sorting, zymogen activation, receptor-mediated endocytosis, and synaptic vesicle proton gradient generation. The component, V-type proton ATPase catalytic subunit A, is one of two V1 domain A subunit isoforms and is found in all tissues [taken from NCBI Entrez Gene (Gene ID: 523)].
Other Notes	Small volumes of anti-ATP6V1A antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ATP6V1A purchase	MBS3905334 is an antibody targeting ATP6V1A. Also known as Rabbit anti-ATP6V1A Antibody, Affinity Purified. Reactive in Human. Host: Rabbit.



Immunoprecipitation (IP) of anti-ATP6V1A antibody
Detection of human ATP6V1A by western blot of immunoprecipitates. Samples: Whole cell lysate (0.5 or 1.0 mg per IP reaction; 20% of IP loaded) from 293T cells prepared using NETN lysis buffer. Antibodies: Affinity purified rabbit anti-ATP6V1A antibody MBS3905334 (lot MBS3905334-1) used for IP at 6 ug per reaction. ATP6V1A was also immunoprecipitated by rabbit anti-ATP6V1A antibody MBS3905335. For blotting immunoprecipitated ATP6V1A, MBS3905334 was used at 1 ug/ml. Detection: Chemiluminescence with an exposure time of 30 seconds.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ATP6V1A. It may not necessarily be applicable to this product.

NCBI GI #	19913424
NCBI GeneID	523
NCBI Accession #	NP_001681.2
UniProt Primary Accession #	P38606
UniProt Secondary Accession #	Q53YD9; Q96DY6; Q9UHY3; B2RBR8; B7Z1R5; D3DN75
UniProt Related Accession #	P38606
GenBank Nucleotide #	NM_001690.3
NCBI Official Full Name	V-type proton ATPase catalytic subunit A
NCBI Official Synonym Full Names	ATPase, H+ transporting, lysosomal 70kDa, V1 subunit A
NCBI Official Symbol	ATP6V1A
NCBI Official Synonym Symbols	HO68; VA68; VPP2; Vma1; ATP6A1; ATP6V1A1
UniProt Protein Name	V-type proton ATPase catalytic subunit A
UniProt Synonym Protein Names	V-ATPase 69 kDa subunit; Vacuolar ATPase isoform VA68; Vacuolar proton pump subunit alpha
UniProt Gene Name	ATP6V1A
UniProt Synonym Gene Names	ATP6A1; ATP6V1A1; VPP2; V-ATPase subunit A
UniProt Entry Name	VATA_HUMAN
NCBI Protein Information	V-type proton ATPase catalytic subunit A; V-ATPase subunit A; V-ATPase A subunit 1; V-ATPase 69 kDa subunit 1; vacuolar ATPase isoform VA68; vacuolar proton pump subunit alpha; vacuolar proton pump alpha subunit 1; ATPase, H+ transporting, lysosomal, subu

NCBI Summary for ATP6V1A	This gene encodes a component of vacuolar ATPase (V-ATPase), a multisubunit enzyme that mediates acidification of eukaryotic intracellular organelles. V-ATPase dependent organelle acidification is necessary for such intracellular processes as protein sorting, zymogen activation, receptor-mediated endocytosis, and synaptic vesicle proton gradient generation. V-ATPase is composed of a cytosolic V1 domain and a transmembrane V0 domain. The V1 domain consists of three A and three B subunits, two G subunits plus the C, D, E, F, and H subunits. The V1 domain contains the ATP catalytic site. The V0 domain consists of five different subunits: a, c, c', c'', and d. Additional isoforms of many of the V1 and V0 subunit proteins are encoded by multiple genes or alternatively spliced transcript variants. This encoded protein is one of two V1 domain A subunit isoforms and is found in all tissues. Transcript variants derived from alternative polyadenylation exist. [provided by RefSeq, Jul 2008]
UniProt Comments for ATP6V1A	ATP6V1A: Catalytic subunit of the peripheral V1 complex of vacuolar ATPase. V-ATPase vacuolar ATPase is responsible for acidifying a variety of intracellular compartments in eukaryotic cells. Belongs to the ATPase alpha/beta chains family. Protein type: EC 3.6.3.14; Energy Metabolism - oxidative phosphorylation; Hydrolase Chromosomal Location of Human Ortholog: 3q13.31 Cellular Component: microvillus; mitochondrion; integral to plasma membrane; lysosomal membrane; apical plasma membrane; plasma membrane; proton-transporting two-sector ATPase complex; cytosol Molecular Function: hydrogen ion transporting ATPase activity, rotational mechanism; ATP binding Biological Process: ATP metabolic process; interaction with host; cellular iron ion homeostasis; transport; ATP hydrolysis coupled proton transport; insulin receptor signaling pathway; transferrin transport; transmembrane transport
Research Articles on ATP6V1A	**1.** Data show that the cAMP/PKA/CREB signaling pathway initiates acidosis-induced V-ATPase trafficking in salivary ducts via regulation of Rab11b expression.
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