



Anti-ATP6V1A (aa 508-617) polyclonal antibody (DPAB-DC2231)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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', 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.
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Immunogen	ATP6V1A (NP_001681, 508 a.a. ~ 617 a.a) partial recombinant protein with GST tag. The sequence is TLEVAKLIKDDFLQQNGYTPYDRFCPFYKTVGMLSNMIAFYDMARRAVETTAQSDNKITW SIIREHMGDILYKLSSMKFKDPLKDGEAKIKSDYAQLLEDMQNAFRSLED
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Source/Host	Mouse
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Species Reactivity	Human
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Conjugate	Unconjugated
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Applications	WB (Cell lysate), WB (Recombinant protein), ELISA,
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Size	50 µl
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Buffer	50 % glycerol
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Preservative	None
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Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	ATP6V1A ATPase, H+ transporting, lysosomal 70kDa, V1 subunit A [Homo sapiens (human)]
Official Symbol	ATP6V1A
Synonyms	ATP6V1A; ATPase, H+ transporting, lysosomal 70kDa, V1 subunit A; HO68; VA68; VPP2; Vma1; ATP6A1; ATP6V1A1; 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, subunit A1; H(+)-transporting two-sector ATPase, subunit A; H+-transporting ATPase chain A, vacuolar (VA68 type); vacuolar ATP synthase catalytic subunit A, ubiquitous isoform;
Entrez Gene ID	523
Protein Refseq	NP_001681
UniProt ID	P38606
Chromosome Location	3q13.31
Pathway	Collecting duct acid secretion; Disease; Epithelial cell signaling in Helicobacter pylori infection; Iron uptake and transport
Function	ATP binding; proton-transporting ATPase activity, rotational mechanism;