



# Anti-ATP6V0A1 (aa 212-298) polyclonal antibody (DPAB-DC2276)

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 gene encodes one of three A subunit proteins and the encoded protein is associated with clathrin-coated vesicles. Three transcript variants encoding different isoforms have been found for this gene.

### Immunogen

ATP6V0A1 (NP\_005168, 212 a.a. ~ 298 a.a) partial recombinant protein with GST tag.  
The sequence is  
GDYVHKSVFIIFQGDQLKNRVKKICEGFRASLYPCPETPQERKEMASGVNTRIDDLQMV  
LNQTEDHRQRVLQAAAKNIRVWFIKVR

### Source/Host

Mouse

### Species Reactivity

Human

### Conjugate

Unconjugated

### Applications

WB (Recombinant protein), ELISA,

### Size

50 µl

### Buffer

50 % glycerol

<b>Preservative</b>	None
<b>Storage</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">ATP6V0A1 ATPase, H+ transporting, lysosomal V0 subunit a1 [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	ATP6V0A1
<b>Synonyms</b>	ATP6V0A1; ATPase, H+ transporting, lysosomal V0 subunit a1; a1; Stv1; VPP1; Vph1; ATP6N1; ATP6N1A; V-type proton ATPase 116 kDa subunit a isoform 1; V-ATPase 116 kDa; vacuolar proton pump subunit 1; vacuolar proton pump, subunit 1; V-type proton ATPase 116 kDa subunit a; vacuolar-type H(+)-ATPase 115 kDa subunit; vacuolar adenosine triphosphatase subunit Ac116; vacuolar proton translocating ATPase 116 kDa subunit A; H(+)-transporting two-sector ATPase, 116 kDa accessory protein A1; clathrin-coated vesicle/synaptic vesicle proton pump 116 kDa subunit; ATPase, H+ transporting, lysosomal non-catalytic accessory protein 1 (110/116kD); ATPase, H+ transporting, lysosomal (vacuolar proton pump) non-catalytic accessory protein 1A (110/116kD);
<b>Entrez Gene ID</b>	<a href="#">535</a>
<b>Protein Refseq</b>	<a href="#">NP_001123492</a>
<b>UniProt ID</b>	<a href="#">Q53ET5</a>
<b>Chromosome Location</b>	17q21
<b>Pathway</b>	Collecting duct acid secretion; Disease; Epithelial cell signaling in Helicobacter pylori infection; Iron uptake and transport
<b>Function</b>	ATPase binding; hydrogen ion transmembrane transporter activity; protein binding;