

# ATP6V1A Rabbit pAb

Catalog No.: A14707

## Basic Information

### Observed MW

74kDa

### Calculated MW

68kDa

### Category

Primary antibody

### Applications

ELISA,WB

### Cross-Reactivity

Mouse

## Background

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.

## Recommended Dilutions

WB 1:500 - 1:2000

## Immunogen Information

### Gene ID

523

### Swiss Prot

P38606

### Immunogen

A synthetic peptide corresponding to a sequence within amino acids 500-600 of human ATP6V1A (NP\_001681.2).

### Synonyms

HO68; VA68; VPP2; Vma1; DEE93; ARCL2D; ATP6A1; IECEE3; ATP6V1A1; ATP6V1A

## Contact

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## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

Affinity purification

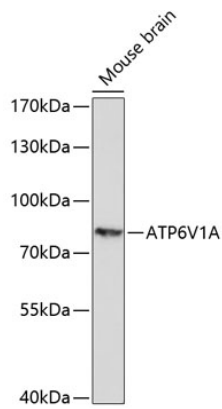
### Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.01% thimerosal, 50% glycerol, pH7.3.

## Validation Data

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Western blot analysis of lysates from mouse brain, using ATP6V1A Rabbit pAb (A14707) at 1:1000 dilution.

Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Enhanced Kit (RM00021).

Exposure time: 3min.