

ATP6V1E1 rabbit monoclonal antibody

Catalog # H00000529-K Size 100 ug x up to 3

Specification

Product Description	Rabbit monoclonal antibody raised against a human ATP6V1E1 peptide using ARM Technology.
Immunogen	A synthetic peptide of human ATP6V1E1 is used for rabbit immunization. Customer or Abnova will decide on the preferred peptide sequence.
Host	Rabbit
Library Construction	Non-fusion antibody library from rabbit spleen (ARM Technology).
Expression	Overexpression vector and transfection into 293H cell line.
Reactivity	Human
Purification	Protein A
Isotype	IgG
Quality Control Testing	Antibody reactive against human ATP6V1E1 peptide by ELISA and mammalian transfected lysate by Western Blot.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Deliverable	Up to three rabbit IgG clones of 100 ug each will be delivered to customer.
Note	1. Customer may provide cell or tissue lysate for antibody screening. 2. Rabbit monoclonal antibody generated by ARM technology is amenable to antibody engineering including F(ab) ₂ , IgG, scFv and different Fc and non-Fc conjugates per customer request.

Applications

- Western Blot (Transfected lysate)

[Protocol Download](#)

- ELISA

Gene Info — ATP6V1E1

Entrez GeneID [529](#)

GeneBank Accession# [ATP6V1E1](#)

Gene Name ATP6V1E1

Gene Alias ATP6E, ATP6E2, ATP6V1E, P31, Vma4

Gene Description ATPase, H⁺ transporting, lysosomal 31kDa, V1 subunit E1

Omim ID [108746](#)

Gene Ontology [Hyperlink](#)

Gene Summary

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, three B, and two G subunits, as well as a C, D, E, F, and H subunit. The V1 domain contains the ATP catalytic site. This gene encodes alternate transcriptional splice variants, encoding different V1 domain E subunit isoforms. Pseudogenes for this gene have been found in the genome. [provided by RefSeq]

Other Designations

ATPase, H⁺ transporting, lysosomal (vacuolar proton pump) 31kD|H⁺-transporting two-sector ATPase, 31kDa subunit|H⁺-transporting ATP synthase chain E, vacuolar|V-ATPase, subunit E|vacuolar H⁺ ATPase E1

Pathway

- [Epithelial cell signaling in Helicobacter pylori infection](#)
- [Metabolic pathways](#)
- [Oxidative phosphorylation](#)
- [Vibrio cholerae infection](#)