

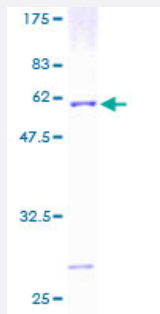
Full-Length

ATP6V1E1 (Human) Recombinant Protein (P01)

Catalog # H00000529-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human ATP6V1E1 full-length ORF (AAH04443, 1 a.a. - 226 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MALSDADVQKQIKHMMAFIEQEANEKAEEDAKAEFEFNIKGRVLTQRLKIMEYYEKKEKQIEQ QKKIQMSNLMNQARLKVLRARDDLITDLLNEAKQRLSKVVKDTRYQVLLDGLVLQGLYQLLEPRM IVRCRKQDFPLVKAQVKAIPMYKIATKNDVDVQIDQESYLPEDIAGGVEIYNGDRKIKVSNTLESRL DLIAQQMMPEVRGALFGANANRKFLD
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	50.60
Interspecies Antigen Sequence	Mouse (99); Rat (99)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — ATP6V1E1

Entrez GeneID [529](#)

GeneBank Accession# [BC004443](#)

Protein Accession# [AAH04443](#)

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](#)