

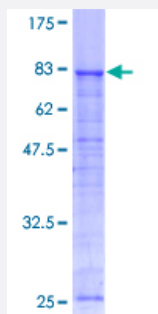
Full-Length

ATP6V1A (Human) Recombinant Protein (P01)

Catalog # H00000523-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human ATP6V1A full-length ORF (AAH13138, 1 a.a. - 617 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MDFSKLPKILDEDKESTFGYVHGVSGPVVTACDMAGAAMYELVRVGHSELVGEIIRLEGDMATIQ
VYEETSGVSVGDPVLRGTGKPLSVELGPGIMGAIFDGIQRPLSDISSQTQSIYPRGVNVSALSARDIKW
DFTPCKNLRVGSHITGGDIYGVSENSLIHKIMLPPRNRGTVTYIAPPGNYDTSDVVLELEFEGVKE
KFTMVQVWPVRQVRPVTEKLPANHPLL TGQRVLDALFPCVQGGTTAIPGAFGCGKTVISQSLSKY
SNSDVIYVGCGERGNEMSEVLRDFPELTMEVDGKVESIMKRTALVANTSNNMPVAAREASIYTGITL
SEYFRDMGYHVSMMADSTSRWAEALREISGRLEMPADSGYPAYLGARLASFYERAGRVKCLG
NPEREGSVSIVGAVSPPGGDFSDPVTSATLGMQVFWGLDKKLAQRKHFPVSNWLISYSKYMRAL
DEYDKHFTEFVPLRTKAKEILQEEEDLAENVQLVGKASLAETDKITLEVAKLIKDDFLQQNGYTPYD
RFCPFYKTVGMLSNMIAFYDMARRAVETTAQSDNKITWSIIREHMGDILYKLSSMKFKDPLKDGEA
KIKSDYAQLLEDMQNAFRSLED

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

93.5

Interspecies Antigen Sequence

Mouse (98); Rat (98)

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 — ATP6V1A

Entrez GeneID	523
GeneBank Accession#	BC013138.1
Protein Accession#	AAH13138
Gene Name	ATP6V1A
Gene Alias	ATP6A1, ATP6V1A1, HO68, VA68, VPP2, Vma1
Gene Description	ATPase, H ⁺ transporting, lysosomal 70kDa, V1 subunit A
Omim ID	607027
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 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. [provided by RefSeq]

Other Designations

ATPase, H⁺ transporting, lysosomal 70kD, V1 subunit A, isoform 1|ATPase, H⁺ transporting, lysosomal, alpha polypeptide, 70kD, isoform 1|ATPase, H⁺ transporting, lysosomal, subunit A1|H⁺-transporting two-sector ATPase, subunit A|H⁺-transporting ATPase chain

Pathway

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