

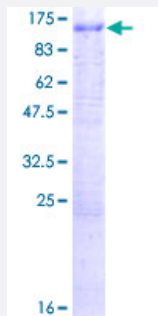
Full-Length

ATP6V0A1 (Human) Recombinant Protein (P01)

Catalog # H000005335-P01

Size 2 ug

Applications



Specification

Product Description

Human ATP6V0A1 full-length ORF (NP_005168.2, 1 a.a. - 831 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MGELFRSEEMTLAQLFLQSEAAAYCCVSELGELGKVQFRDLNPDVNVFQQRKFVNEVRRCEEMDR
KLRFEVEKEIRKANIPIMDTGENPEVPFPRDMIDLEANFEKIENELKEINTNQEALKRNFLELTELFIL
RKTQQFFDEMADPDLEEESLLEPSEMGRGTPRLRGFVAGVINRERIPFERMLWRVCRGNVF
LRQAEIENPLEDPVTGDYVHKSVFIIFQGDQLKNRVKKICEGFRASLYPCPETPQERKEMASGVN
TRIDDLQMVLNQTEDHRQRVLQAAAKNIRVWFIKVRKMKAYHTLNLCNIDVTQKCLIAEVWCPVTD
LDSIQFALRRGTEHSGSTVPSILNRMQTNQTPPTYNKTNKFYGFQNVDAYGIGTYREINPAPYTIITF
PFLFAVMFGDFGHGILMTLFAVWMVLRESRILSQKNENEMFSTVFSGRYIILLMGVFSMYTGLIYND
CFSKSLNIFGSSWSVRPMFTYNWTEETLRGNPVLQLNPALPGVFGGPYPFGIDPWNIATNKLTF
NSFKMKMSVILGIIHMLFGVSLSLFNHIYFKKPLNIYFGFIPEIIFMTSLFGYLILIFYKWTAYDAHTSEN
APSLLIHFIMFLFSYPESGYSMLYSGQKGIQCFLVVALLCVPWMLLFKPLVLRRLRRKHLGTL
NFGGIRVGNPTEEDAEIIQHDQLSTHSEDADEFDFGDTMVHQAIHTIEYCLGCISNTASYRLRLWAL
SLAHAQLSEVLWTMVIHIGLSVKSLAGGLVLFFFTAFATLTVAILIMEGLSAFLHALRLHWVEFQN
KFYSGTGFKFLPFSFEHIREGKFEE

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

122.2

Interspecies Antigen Sequence

Mouse (95); Rat (96)

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 — ATP6V0A1

Entrez GeneID	535
GeneBank Accession#	NM_005177.3
Protein Accession#	NP_005168.2
Gene Name	ATP6V0A1
Gene Alias	ATP6N1, ATP6N1A, DKFZp781J1951, Stv1, VPP1, Vph1, a1
Gene Description	ATPase, H ⁺ transporting, lysosomal V0 subunit a1
Omim ID	192130
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 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. [provided by RefSeq]

Other Designations

ATPase, H⁺ transporting, lysosomal (vacuolar proton pump) non-catalytic accessory protein 1A (110/116kD)|ATPase, H⁺ transporting, lysosomal non-catalytic accessory protein 1 (110/116kD)|H(+)-transporting two-sector ATPase, 116 kDa accessory protein A1|cla

Pathway

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

Disease

- [Disease Progression](#)
- [Disease Susceptibility](#)
- [HIV Infections](#)