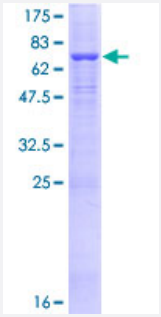
Full-Length

ATP6AP1 (Human) Recombinant Protein (P01)

Catalog # H00000537-P01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human ATP6AP1 full-length ORF (NP_001174.2, 1 a.a. - 470 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MMAAMATARVRMGPRCAQALWRMPWLPVFLSLAAAAAAAAAAEQQVPLVLWSSDRDLWAPAA DTHEGHITSDLQLSTYLDPALELGPRNVLLFLQDKLSIEDFTAYGGVFGNKQDSAFSNLENALDLA PSSLVLPAVDWYAVSTLTTYLQEKLGASPLHVDLATLRELKLNASLPALLLIRLPYTASSGLMAPRE VLTGNDEVIGQVLSTLKSEDVPYTAALTAVRPSRVARDVAVVAGGLGRQLLQKQPVSPVIHPPVS YNDTAPRILFWAQNFSVAYKDQWEDLTPLTFGVQELNLTGSFWNDSFARLSLTYERLFGTTVTFK FILANRLYPVSARHWFTMERLEVHSNGSVAYFNASQVTGPSIYSFHCEYVSSLSKKGSLLVARTQP SPWQMMLQDFQIQAFNVMGEQFSYASDCASFFSPGIWMGLLTSLFMLFIFTYGLHMILSLKTMDR FDDHKGPTISLTQIV
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	78.4
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 — ATP6AP1

Entrez GeneID	537
GeneBank Accession#	NM_001183.4
Protein Accession#	NP_001174.2
Gene Name	ATP6AP1
Gene Alias	16A, ATP6IP1, ATP6S1, Ac45, CF2, MGC129781, VATPS1, XAP-3, XAP3
Gene Description	ATPase, H+ transporting, lysosomal accessory protein 1
Omim ID	300197
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a component of a multisubunit enzyme (1 mDa MW) that mediates acidification of eukaryotic intracellular organelles. Vacuolar ATPase (V-ATPase) is comprised of a cytosolic V1 (site of the ATP catalytic site) and a transmembrane V0 domain. V-ATPase dependent organelle acidification is necessary for such intracellular processes as protein sorting, zymogen activation, and receptor-mediated endocytosis. The encoded protein of this gene is approximately 45 kD and may assist in the V-ATPase-mediated acidification of neuroendocrine secretory granules. [provided by RefSeq
Other Designations	ATPase, H+ transporting, lysosomal (vacuolar proton pump), subunit 1|ATPase, H+ transporting, lysosomal interacting protein 1|H-ATPase subunit|OTTHUMP00000032115|V-ATPase S1 accessory protein

Publication Reference

- Ubiquitin ligase substrate identification through quantitative proteomics at both the protein and peptide levels.

  Lee KA, Hammerle LP, Andrews PS, Stokes MP, Mustelin T, Silva JC, Black RA, Doedens JR.

  The Journal of Biological Chemistry 2011 Dec; 286(48):41530.

  Application: Incubated, Recombinant protein

Pathway

- Epithelial cell signaling in Helicobacter pylori infection
- Lysosome
- Metabolic pathways
- Oxidative phosphorylation
- Vibrio cholerae infection

Disease

- Cardiovascular Diseases
- Diabetes Mellitus
- Edema