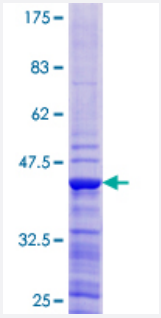
Full-Length

ATP6V1G1 (Human) Recombinant Protein (P01)

Catalog # H00009550-P01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human ATP6V1G1 full-length ORF (NP_004879.1, 1 a.a. - 118 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MASQSQGIQQLLQAEKRAAEKVSEARKRKNRRLKQAKEEAQAEIEQYRLQREKEFKAKEAAALG SRGSCSTEVEKETQEKMTILQTYFRQNRDEVLDNLLAFVCDIRPEIHENYRING
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	40.2
Interspecies Antigen Sequence	Mouse (94); 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 — ATP6V1G1

Entrez GeneID	9550
GeneBank Accession#	NM_004888.3
Protein Accession#	NP_004879.1
Gene Name	ATP6V1G1
Gene Alias	ATP6G, ATP6G1, ATP6GL, ATP6J, DKFZp547P234, Vma10
Gene Description	ATPase, H+ transporting, lysosomal 13kDa, V1 subunit G1
Omim ID	607296
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. The protein encoded by this gene is one of three V1 domain G subunit proteins. Pseudogenes of this gene have been characterized. [provided by RefSeq
Other Designations	ATPase, H+ transporting, lysosomal (vacuolar proton pump), member J|OTTHUMP00000022758|V-ATPase 13 kDa subunit 1|vacuolar ATP synthase subunit M16|vacuolar H(+)-ATPase subunit G 1|vacuolar H+ ATPase G1

Pathway

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