

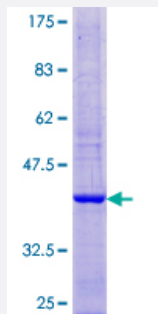
Full-Length

ATP6V1G3 (Human) Recombinant Protein (P01)

Catalog # H00127124-P01

Size 25 ug, 10 ug

Applications



Specification

| | |
|--------------------------------------|--|
| Product Description | Human ATP6V1G3 full-length ORF (NP_573569.1, 1 a.a. - 118 a.a.) recombinant protein with GST-tag at N-terminal. |
| Sequence | MTSQSQGIHQLLQAEKRAKDKLEEAKKRKGKRLKQAKEEAMVEIDQYRMQRDKEFRLKQSKIMG SQNNLSDEIEEQTLGKIQELNGHYNKYMESVMNQLLSMVCDMKPEIHVNYRATN |
| Host | Wheat Germ (in vitro) |
| Theoretical MW (kDa) | 40.3 |
| Interspecies Antigen Sequence | Mouse (84); Rat (81) |
| 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 — ATP6V1G3

Entrez GeneID [127124](#)

GeneBank Accession# [NM_133262.2](#)

Protein Accession# [NP_573569.1](#)

Gene Name ATP6V1G3

Gene Alias ATP6G3, MGC119810, MGC119813, Vma10

Gene Description ATPase, H⁺ transporting, lysosomal 13kDa, V1 subunit G3

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 G subunit proteins. Transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

Other Designations ATPase, H⁺ transporting, lysosomal (vacuolar proton pump) subunit G3|ATPase, H⁺ transporting, lysosomal 13kD, V1 subunit G|ATPase, H⁺ transporting, lysosomal, V1 subunit G3|OTTHUMP0000033686|V-ATPase 13 kDa subunit 3|V-ATPase G subunit 3|V-ATPase G3 subu

Pathway

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