

Recombinant Full Length Human ATP6V0D1 Protein, GST-tagged

Cat. No. ATP6V0D1-1091HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ATP6V0D1 full-length ORF (AAH08861, 1 a.a. - 351 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	351 amino acids
Description	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 known as the D subunit and is found ubiquitously. [provided by RefSeq, Jul 2008]
Molecular Mass	64.35 kDa
AA Sequence	MSFFPEHYFN VDNGYLEGLV RGLKAGVLSQ ADYLNLVQCE TLEDLKLHLQ

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STDYGNFLAN EASPLTVSVI DDRLKEKMVV EFRHMRNHAY EPLASFLDFI
 TYSYMIDNVI LLITGTLHQR SIAELVPKCH PLGSFEQMEA VNIAQTPAEL
 YNAILVDTPL AAFQDCISE QDLDEMNI EI IRNTLYKAYL ESFYKFCTLL
 GGTTADAMCP ILEFEADRRRA FIITINSFGT ELSKEDRAKL FPHCGRLYPE
 GLAQLARADD YEQVKNVADY YPEYKLLFEG AGSNPGDKTL EDRFFEHEVK
 LNKLAFLNQF HFGVIFYAFVK LKEQEERNIV WIAECIAQRH RAKIDNYIFI F

Applications

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);
 Antibody Production; Protein Array

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION
Gene Name

ATP6V0D1 ATPase, H⁺ transporting, lysosomal 38kDa, V0 subunit d1 [Homo sapiens]

Official Symbol

ATP6V0D1

Synonyms

ATP6V0D1; ATPase, H⁺ transporting, lysosomal 38kDa, V0 subunit d1; ATP6D, ATPase, H⁺ transporting, lysosomal (vacuolar proton pump), member D , ATPase, H⁺ transporting, lysosomal 38kDa, V0 subunit d isoform 1 , ATPase, H⁺ transporting, lysosomal 38kDa, V0 subunit D1; V-type proton ATPase subunit d 1; ATP6DV; P39; VATX; Vma6; VPATPD; V-ATPase, subunit D; V-ATPase subunit d 1; V-ATPase AC39 subunit; 32 kDa accessory protein; vacuolar proton pump subunit d 1; V-ATPase 40 KDa accessory protein; H(+)-transporting two-sector ATPase, subunit D; ATPase, H⁺ transporting, lysosomal (vacuolar proton pump), member D; VMA6; ATP6D; FLJ43534

Gene ID	9114
mRNA Refseq	NM_004691
Protein Refseq	NP_004682
MIM	607028
UniProt ID	P61421

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