

Recombinant Human ATP6V0D1 protein, GST-tagged

Cat. No. ATP6V0D1-997H **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	Wheat Germ
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	MSFFPEHYFNVDNGYLEGLVRGLKAGVLSQADYLNLVQCETLEDLKLHLQSTDYGN FLANEASPLTVSVIDDLKEKMVVEFRHMRNHAYEPLASFLDFITYSYMIDNVILLITG TLHQRSIAELVPKCHPLGSFEQMEAVNIAQTPAELYNAILVDTPLAFFQDCISEQDL

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DEMNIIEIRNTLYKAYLESFYKFCTLLGGTTADAMCPILEFEADRRAFIITINSFGTELSK
EDRAKLFPHCGRLYPEGLAQLARADDYEQVKNVADYYPEYKLLFEGAGSNPGDKTL
EDRFFEHEVKLNKLAFLNQFHFGVFYAFVKLKEQECRNIVWIAECIAQRHRAKIDNYI
PIF

Applications

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

Notes

Best use within three months from the date of receipt of this protein.

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;

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



12.5% SDS-PAGE Stained with Coomassie Blue.