

Recombinant Human ATP6V1B1 protein, GST-tagged

Cat. No. ATP6V1B1-1001H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ATP6V1B1 full-length ORF (AAH63411, 1 a.a. - 513 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 one of two V1 domain B subunit isoforms and is found in the kidney. Mutations in this gene cause distal renal tubular acidosis associated with sensorineural deafness. [provided by RefSeq, Jul 2008]
Molecular Mass	81.95 kDa
AA Sequence	MAMEIDSRPGGLPGSSCNLGAAREHMQAVTRNYITHPRVTYRTVCSVNGPLVVLDR

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VKFAQYAEIVHFTLPDGTQRSGQVLEVAGTKAIVQVFEGTSGIDARKTTCEFTGDILR
 TPVSEDMLGRVFNGSGKPIDKGPVVM AEDFLDINGQPINPHSRIYPEEMIQTGISPID
 VMNSIARGQKIPIFSAAGLPHNEIAAQICRQAGLVKKS KAVLDYHDDNFAIVFAAMGV
 NMETARFFKSDFEQNGTMGNVCLFLN LANDPTIERIITPRLALTTAEFLAYQCEKHVL
 VIL TDMSSYAEALREVSAAREEVPGRRGFPGYMYTDLAT IYERAGRVEGRGGSITQI
 PILTMPND DITHPIPDLTG FITEGQIYVDRQLHNRQIYPPINVLPSLSRLMKSAIGEGMT
 RKDHGDVSNQLYACYAIGKDVQAMKAVVGEEALTS EDLLYLEFLQKFEKNFINQGPY
 ENRSVFESLDLGWKLRLRIFPKEMLKRI PQAVIDEFYSREGALQDLAPDTAL

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

ATP6V1B1 ATPase, H⁺ transporting, lysosomal 56/58kDa, V1 subunit B1 [Homo sapiens]

Official Symbol

ATP6V1B1

Synonyms

ATP6V1B1; ATPase, H⁺ transporting, lysosomal 56/58kDa, V1 subunit B1; ATP6B1, vacuolar proton pump 3 , VPP3; V-type proton ATPase subunit B, kidney isoform; Renal tubular acidosis with deafness; RTA1B; VATB; Vma2; V-ATPase B1 subunit; V-ATPase subunit B 1; vacuolar proton pump 3; H⁺-ATPase beta 1 subunit; vacuolar proton pump, subunit 3; vacuolar proton pump subunit B 1; endomembrane proton pump 58 kDa subunit; H(+)-transporting two-sector ATPase, 58kD subunit; VMA2;

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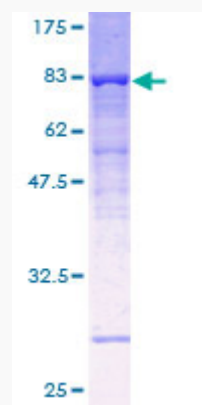
VPP3; ATP6B1; MGC32642;

Gene ID 525

mRNA Refseq NM_001692

Protein Refseq NP_001683

MIM 192132

UniProt ID P15313


12.5% SDS-PAGE Stained with Coomassie Blue.

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