Recombinant Human ATP6V0A1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ATP6V0A1-2980H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ATP6V0A1 MS Standard C13 and N15-labeled recombinant protein (NP_005168) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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 gene encodes one of three A subunit proteins and the encoded protein is associated with clathrin-coated vesicles. Three transcript variants encoding different isoforms have been found for this gene.
Molecular Mass	95.6 kDa

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AA Sequence	MGELFRSEEMTLAQLFLQSEAAYCCVSELGELGKVQFRDLNPDVNVFQRKFVNEVR RCEEMDRKLRFVEKEIRKANIPIMDTGENPEVPFPRDMIDLEANFEKIENELKEINTNQ EALKRNFLELTELKFILRKTQQFFDEMADPDLLEESSSLLEPSEMGRGTPLRLGFVA GVINRERIPTFERMLWRVCRGNVFLRQAEIENPLEDPVTGDYVHKSVFIIFFQGDQLK NRVKKICEGFRASLYPCPETPQERKEMASGVNTRIDDLQMVLNQTEDHRQRVLQAA AKNIRVWFIKVRKMKAIYHTLNLCNIDVTQKCLIAEVWCPVTDLDSIQFALRRGTEHS GSTVPSILNRMQTNQTPPTYNKTNKFTYGFQNIVDAYGIGTYREINPAPYTIITFPFLF AVMFGDFGHGILMTLFAVWMVLRESRILSQKNENEMFSTVFSGRYIILLMGVFSMYT GLIYNDCFSKSLNIFGSSWSVRPMFTYNWTEETLRGNPVLQLNPALPGVFGGPYPF GIDPIWNIATNKLTFLNSFKMKMSVILGIIHMLFGVSLSLFNHIYFKKPLNIYFGFIPEIIF MTSLFGYLVILIFYKWTAYDAHTSENAPSLLIHFINMFLFSYPESGYSMLYSGQKGIQC FLVVVALLCVPWMLLFKPLVLRRQYLRRKHLGTLNFGGIRVGNGPTEEDAEIIQHDQL STHSEDADEFDFGDTMVHQAIHTIEYCLGCISNTASYLRLWALSLAHAQLSEVLWTM VIHIGLSVKSLAGGLVLFFFFTAFATLTVAILLIMEGLSAFLHALRLHWVEFQNKFYSGT GFKFLPFSFEHIREGKFEETRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 μg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	ATP6V0A1 ATPase H+ transporting V0 subunit a1 [Homo sapiens (human)]

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Official Symbol	ATP6V0A1
Synonyms	ATP6V0A1; ATPase, H+ transporting, lysosomal V0 subunit a1; ATP6N1, ATP6N1A, ATPase, H+ transporting, lysosomal (vacuolar proton pump) non catalytic accessory protein 1A (110/116kD), ATPase, H+ transporting, lysosomal V0 subunit a isoform 1, ATPase, H+ transporting, lysosomal V0 subunit A1, VPP1; V-type proton ATPase 116 kDa subunit a isoform 1; a1; Stv1; Vph1; V-ATPase 116 kDa; vacuolar proton pump subunit 1; vacuolar proton pump, subunit 1; V-type proton ATPase 116 kDa subunit a; vacuolar-type H(+)-ATPase 115 kDa subunit; vacuolar adenosine triphosphatase subunit Ac116; vacuolar proton translocating ATPase 116 kDa subunit A; H(+)-transporting two-sector ATPase, 116 kDa accessory protein A1; clathrin-coated vesicle/synaptic vesicle proton pump 116 kDa subunit; ATPase, H+ transporting, lysosomal non-catalytic accessory protein 1 (110/116kD); ATPase, H+ transporting, lysosomal (vacuolar proton pump) non-catalytic accessory protein 1A (110/116kD); VPP1; ATP6N1; ATP6N1A; DKFZp781J1951;
Gene ID	535
mRNA Refseq	NM_005177
Protein Refseq	NP_005168
MIM	192130
UniProt ID	Q93050

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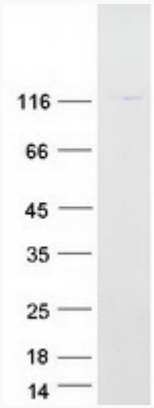
SDS-PAGE	

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