Recombinant Human ATP6V1G1, His-tagged

Cat. No. ATP6V1G1-846H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ATP6V1G1 was produced in E.coli with a His tag at N-terminus. MW = 13626Da (1-118aa).
Species	Human
Source	E.coli
ProteinLength	1-118 a.a.
Description	V-type proton ATPase subunit G 1 is an enzyme that in humans is encoded by the ATP6V1G1 gene. 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, three B, and two G subunits, as well as a C, D, E, F, and H subunit. The V1 domain contains the ATP catalytic site. The protein encoded by this gene is one of three V1 domain G subunit proteins. Pseudogenes of this gene have been characterized.
Form	10 mM Tris. pH 8.0. 0.002% NaN3. 3mM NaCl. 2.5mM Imidazole.
Purity	95%.

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Clonality	N/A.
Applications	MS. SDS.

GENE INFORMATION

Gene Name	ATP6V1G1 ATPase, H+ transporting, lysosomal 13kDa, V1 subunit G1 [Homo sapiens]
Synonyms	ATP6V1G1; ATPase, H+ transporting, lysosomal 13kDa, V1 subunit G1; ATP6G; ATP6J; Vma10; ATP6G1; ATP6GL; DKFZp547P234; V-type proton ATPase subunit G 1; V-ATPase subunit G 1; V-ATPase 13 kDa subunit 1; vacuolar H(+)-ATPase subunit G 1; vacuolar proton pump subunit G 1; vacuolar proton pump subunit M16; vacuolar ATP synthase subunit M16; ATPase, H+ transporting, lysosomal (vacuolar proton pump), member J; EC 3.6.3.14; ATPase, H+ transporting, lysosomal 13kDa, V1 subunit G isoform 1
Gene ID	9550
mRNA Refseq	NM_004888
Protein Refseq	NP_004879
MIM	607296
UniProt ID	O75348
Chromosome Location	9q32
Pathway	Collecting duct acid secretion; Epithelial cell signaling in Helicobacter pylori infection; Metabolic pathways; Oxidative phosphorylation; Phagosome; Vibrio cholerae infection

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Function	ATPase activity; ATPase binding; hydrogen-exporting ATPase activity, phosphorylative mechanism; hydrolase activity, acting on acid anhydrides, catalyzing transmembrane movement of substances; protein binding

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