Recombinant Human ATP6V1C1, GST-tagged

Cat. No. ATP6V1C1-10043H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ATP6V1C1 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-381a.a.
Description	This gene encodes a component of vacuolar ATPase (V-ATPase), a multisubunit enzyme that mediates acidification of intracellular compartments of eukaryotic cells. V-ATPase dependent 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 is one of two genes that encode the V1 domain C subunit proteins and is found ubiquitously. This C subunit is analogous but not homologous to gamma subunit of F-ATPases. Previously, this gene was designated ATP6D.
Storage	The protein is stored in PBS buffer at -20℃. Avoid repeated freezing and thawing

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	cycles.
Storage Buffer	1M PBS (58mM Na2HPO4,17mM NaH2PO4, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100,15%glycerol.

GENE INFORMATION

Gene Name	ATP6V1C1 ATPase, H+ transporting, lysosomal 42kDa, V1 subunit C1 [Homo sapiens]
Official Symbol	ATP6V1C1
Synonyms	ATP6C; ATP6D; ATP6V1C1; ATPase H+ transporting lysosomal (vacuolar proton pump) 42kD; ATPase H+ transporting lysosomal 42kD V1 subunit C isoform 1; ATPase H+ transporting lysosomal 42kDa V1 subunit C isoform 1; ATPase H+ transporting lysosomal 42kDa V1 subunit C1; ATPase H+ transporting lysosomal V1 subunit C1; FLJ20057; H(+) transporting two sector ATPase subunit C; H+ ATPase C subunit; H+ transporting ATPase chain C vacuolar; Subunit C of vacuolar proton ATPase V1 domain; V ATPase C subunit; V ATPase subunit C 1; V-ATPase subunit C 1; V-type proton ATPase subunit C 1; Vacuolar ATP synthase subunit C; Vacuolar proton pump 42 kD subunit; Vacuolar proton pump C subunit; Vacuolar proton pump subunit C 1; Vacuolar protonATPase subunit C VI domain; VATC; VATC1_HUMAN; VATPase C subunit; VATPase subunit C 1; VMA5; ATP6V1C1
Gene ID	528
mRNA Refseq	NM_001695.4
Protein Refseq	NP_001686.1
MIM	603097

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UniProt ID	P21283
Chromosome Location	8q22.3
Pathway	Collecting duct acid secretion, organism-specific biosystem; Collecting duct acid secretion, conserved biosystem; Disease, organism-specific biosystem; Epithelial cell signaling in Helicobacter pylori infection, organism-specific biosystem; Epithelial cell signaling in Helicobacter pylori infection, conserved biosystem; Insulin receptor recycling, organism-specific biosystem; Iron uptake and transport, organism-specific biosystem
Function	hydrogen-exporting ATPase activity, phosphorylative mechanism; protein binding; proton-transporting ATPase activity, rotational mechanism; transporter activity

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