Recombinant Human ATP6V1C2, GST-tagged

Cat. No. ATP6V1C2-10044H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ATP6V1C2 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 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. This gene encodes alternate transcriptional splice variants, encoding different V1 domain C subunit isoforms.
Storage	The protein is stored in PBS buffer at -20℃. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na2HPO4,17mM NaH2PO4, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100,15%glycerol.

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GENE INFORMATION

Gene Name	ATP6V1C2 ATPase, H+ transporting, lysosomal 42kDa, V1 subunit C2 [Homo sapiens]
Official Symbol	ATP6V1C2
Synonyms	ATP6V1C2; ATPase, H+ transporting, lysosomal 42kDa, V1 subunit C2; ATPase, H+ transporting, lysosomal 42kD, V1 subunit C isoform 2 , ATPase, H+ transporting, lysosomal 42kDa, V1 subunit C isoform 2; V-type proton ATPase subunit C 2; ATP6C2; VMA5; V-ATPase C2 subunit; V-ATPase subunit C 2; vacuolar proton pump subunit C 2;
Gene ID	245973
mRNA Refseq	NM_001039362
Protein Refseq	NP_001034451
UniProt ID	Q8NEY4
Chromosome Location	2p25.1
Pathway	Collecting duct acid secretion, organism-specific biosystem; Collecting duct acid secretion, conserved 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; Metabolic pathways, organism-specific biosystem;

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

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