Recombinant Human ATP6V1E1, GST-tagged

Cat. No. ATP6V1E1-10046H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ATP6V1E1 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-226a.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 E subunit isoforms. Pseudogenes for this gene have been found in the genome.
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	ATP6V1E1 ATPase, H+ transporting, lysosomal 31kDa, V1 subunit E1 [Homo sapiens]
Official Symbol	ATP6V1E1
Synonyms	ATP6V1E1; ATPase, H+ transporting, lysosomal 31kDa, V1 subunit E1; ATP6E, ATP6V1E, ATPase, H+ transporting, lysosomal (vacuolar proton pump) 31kD , ATPase, H+ transporting, lysosomal 31kDa, V1 subunit E isoform 1; V-type proton ATPase subunit E 1; ATP6E2; P31; Vma4; V-ATPase, subunit E; V-ATPase subunit E 1; V-ATPase 31 kDa subunit; vacuolar proton pump subunit E 1; H+-transporting ATP synthase chain E, vacuolar; H(+)-transporting two-sector ATPase, 31kDa subunit; ATP6E; ATP6V1E;
Gene ID	529
mRNA Refseq	NM_001039366
Protein Refseq	NP_001034455
MIM	108746
UniProt ID	P36543
Chromosome Location	22q11.2
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

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	infection, conserved biosystem; Insulin receptor recycling, organism-specific biosystem; Iron uptake and transport, organism-specific biosystem; Metabolic pathways, organism-specific biosystem;
Function	hydrogen-exporting ATPase activity, phosphorylative mechanism; hydrolase activity; protein binding; proton-transporting ATPase activity, rotational mechanism;

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