Recombinant Human ATP6V1E1, T7-tagged

Cat. No. ATP6V1E1-386H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human ATP6V1E1 (aa. 1-226) produced in*E.coli*is a 26 kDa protein. It was fused to T7 tag at N-terminus.
Species	Human
Source	E.coli
ProteinLength	1-226 a.a.
Description	This protein is 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, and receptor-mediated endocytosis. V-ATPase is comprised of a cytosolic V1 domain and a transmembrane V0 domain. The V1 domain consists of a hexamer of three A and three B subunits plus the C, D, and E subunits. It contains the ATP catalytic site. The protein is known as the E subunit and is found ubiquitously.
Purity	95%.
Preparation	0.1mg/0.073 ml.
Tested Application	E, WB, MS.
Buffer	10 mM Tris, pH 8.0, 0.1% Triton X-100, 0.002% NaN3.

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Species Reactivity	n/aH.
Storage	Store at -70°C with any protein, exposing ATP6V1E1 recombinant protein to repeated freeze/thaw cycles is not recommended. When working with proteins care should be taken to keep recombinant protein at a cool and stable temperature.
Pathways	Epithelial cell signaling in Helicobacter pylori infection; Metabolic pathways; Oxidative phosphorylation; Vibrio cholerae infection

GENE INFORMATION

Gene Name	ATP6V1E1 ATPase, H+ transporting, lysosomal 31kDa, V1 subunit E1 [Homo sapiens]
Synonyms	ATPase, H+ transporting, lysosomal 31kDa, V1 subunit E1; P31; Vma4; ATP6E; ATP6E2; ATP6V1E; ATP6V1E1; vacuolar H+ ATPase E1; V-ATPase, subunit E; H+-transporting ATP synthase chain E, vacuolar; H(+)-transporting two-sector ATPase, 31kDa subunit; ATPase, H+ transporting, lysosomal (vacuolar proton pump) 31Kd; ATPase, H+ transporting, lysosomal 31kDa, V1 subunit E isoform 1; V-ATPase 31 kDa subunit; V-ATPase subunit E 1; Vacuolar proton pump subunit E 1
Gene ID	529
mRNA Refseq	NM_001039366
Protein Refseq	NP_001034455
MIM	108746
UniProt ID	P36543

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Chromosome Location	22q11.1
Function	hydrogen-exporting ATPase activity, phosphorylative mechanism; hydrolase activity; protein binding; proton-transporting ATPase activity, rotational mechanism

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