

## Recombinant Human ATP6V1E1 293 Cell Lysate

**Cat. No.** ATP6V1E1-8580HCL    **Lot. No.** (See product label)

### SPECIFICATION

<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	Antigen standard for ATPase, H <sup>+</sup> transporting, lysosomal 31kDa, V1 subunit E1 (ATP6V1E1), transcript variant 1 is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
<b>Components</b>	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
<b>Size</b>	0.1 mg
<b>Storage Instruction</b>	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.
<b>Applications</b>	ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the

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mixture at room temperature for 30 min). Load 5 ug lysate per lane.

## GENE INFORMATION

<b>Gene Name</b>	ATP6V1E1 ATPase, H <sup>+</sup> transporting, lysosomal 31kDa, V1 subunit E1 [ Homo sapiens ]
<b>Official Symbol</b>	ATP6V1E1
<b>Synonyms</b>	ATP6V1E1; ATPase, H <sup>+</sup> transporting, lysosomal 31kDa, V1 subunit E1; ATP6E, ATP6V1E, ATPase, H <sup>+</sup> transporting, lysosomal (vacuolar proton pump) 31kD , ATPase, H <sup>+</sup> 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 <sup>+</sup> -transporting ATP synthase chain E, vacuolar; H(+)-transporting two-sector ATPase, 31kDa subunit; ATP6E; ATP6V1E;
<b>Gene ID</b>	529
<b>mRNA Refseq</b>	NM_001039366
<b>Protein Refseq</b>	NP_001034455
<b>MIM</b>	108746
<b>UniProt ID</b>	P36543
<b>Chromosome Location</b>	22q11.2
<b>Pathway</b>	Collecting duct acid secretion, organism-specific biosystem; Collecting duct acid

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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;

**Function**

hydrogen-exporting ATPase activity, phosphorylative mechanism; hydrolase activity; protein binding; proton-transporting ATPase activity, rotational mechanism;

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