

Recombinant Human ATP6V1E1 293 Cell Lysate

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

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for ATPase, H ⁺ 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.
Components	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).
Size	0.1 mg
Storage Instruction	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.

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Applications

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

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

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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;

Function

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