

Recombinant Human ATP6V1A 293 Cell Lysate

Cat. No. ATP6V1A-8585HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for ATPase, H ⁺ transporting, lysosomal 70kDa, V1 subunit A (ATP6V1A) 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

ATP6V1A ATPase, H⁺ transporting, lysosomal 70kDa, V1 subunit A [Homo sapiens]

Official Symbol

ATP6V1A

Synonyms

ATP6V1A; ATPase, H⁺ transporting, lysosomal 70kDa, V1 subunit A; ATP6A1, ATP6V1A1, ATPase, H⁺ transporting, lysosomal (vacuolar proton pump), alpha polypeptide, 70kD, isoform 1 , VPP2; V-type proton ATPase catalytic subunit A; VA68; Vma1; V-ATPase subunit A; V-ATPase A subunit 1; V-ATPase 69 kDa subunit 1; vacuolar ATPase isoform VA68; vacuolar proton pump subunit alpha; vacuolar proton pump alpha subunit 1; ATPase, H⁺ transporting, lysosomal, subunit A1; H(+)-transporting two-sector ATPase, subunit A; H⁺-transporting ATPase chain A, vacuolar (VA68 type); vacuolar ATP synthase catalytic subunit A, ubiquitous isoform; HO68; VPP2; ATP6A1; ATP6V1A1;

Gene ID

523

mRNA Refseq

NM_001690

Protein Refseq

NP_001681

MIM

607027

UniProt ID

P38606

Chromosome

3q13.31

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Location	
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	ATP binding; hydrogen ion transporting ATP synthase activity, rotational mechanism; hydrolase activity; hydrolase activity, acting on acid anhydrides, catalyzing transmembrane movement of substances; nucleotide binding; proton-transporting ATPase activity, rotational mechanism;