

Recombinant Human ATP4A 293 Cell Lysate

Cat. No. ATP4A-8608HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for ATPase, H ⁺ /K ⁺ exchanging, alpha polypeptide (ATP4A) 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 [ATP4A ATPase, H+/K+ exchanging, alpha polypeptide \[Homo sapiens \]](#)

Official Symbol ATP4A

Synonyms ATP6A

Gene ID [495](#)

mRNA Refseq [NM_000704.2](#)

Protein Refseq [NP_000695.2](#)

MIM [137216](#)

UniProt ID [P20648](#)

Chromosome Location 19q13.1

Pathway Collecting duct acid secretion, organism-specific biosystem;Collecting duct acid secretion, conserved biosystem;Gastric acid secretion, organism-specific biosystem;Gastric acid secretion, conserved biosystem;Ion channel transport, organism-specific biosystem;Ion transport by P-type ATPases, organism-specific biosystem;Oxidative phosphorylation, organism-specific biosystem;

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Function

ATP binding;hydrogen:potassium-exchanging ATPase activity;magnesium ion binding;protein heterodimerization activity;

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