

## Recombinant Human ATP12A 293 Cell Lysate

**Cat. No.** ATP12A-8614HCL    **Lot. No.** (See product label)

### SPECIFICATION

<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	Antigen standard for ATPase, H <sup>+</sup> /K <sup>+</sup> transporting, nongastric, alpha polypeptide (ATP12A) 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

**Gene Name** [ATP12A ATPase, H+/K+ transporting, nongastric, alpha polypeptide \[ Homo sapiens \]](#)

**Official Symbol** [ATP12A](#)

**Synonyms**

ATP12A; ATPase, H+/K+ transporting, nongastric, alpha polypeptide; ATP1AL1, ATPase, Na+/K+ transporting, alpha polypeptide like 1; potassium-transporting ATPase alpha chain 2; ATPase; Na+K+ transporting; alpha 1 polypeptide like; non gastric H(+)/K(+) ATPase alpha subunit; potassium transporting ATPase alpha chain 2; proton pump; sodium/potassium ATPase; alpha polypeptide like; non-gastric H(+)/K(+) ATPase alpha subunit; non-gastric H(+)/K(+) ATPase subunit alpha; ATPase, Na+/K+ transporting, alpha polypeptide-like 1; ATP1AL1;

**Gene ID** [479](#)

**mRNA Refseq** [NM\\_001185085](#)

**Protein Refseq** [NP\\_001172014](#)

**MIM** [182360](#)

**UniProt ID** [P54707](#)

**Chromosome Location** [13q11-q12.1](#)

**Pathway**

Ion channel transport, organism-specific biosystem; Ion transport by P-type ATPases, organism-specific biosystem; Oxidative phosphorylation, organism-specific biosystem;

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Oxidative phosphorylation, conserved biosystem; Transmembrane transport of small molecules, organism-specific biosystem;

**Function**

ATP binding; ATPase activity, coupled to transmembrane movement of ions, phosphorylative mechanism; hydrogen:potassium-exchanging ATPase activity; hydrolase activity; hydrolase activity, acting on acid anhydrides, catalyzing transmembrane movement of substances; metal ion binding; monovalent inorganic cation transmembrane transporter activity; nucleotide binding;

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