

# Recombinant Human ATP1A1 293 Cell Lysate

**Cat. No.** ATP1A1-8613HCL    **Lot. No.** (See product label)

## SPECIFICATION

### Product Overview

**Species** Human

**Source** HEK293

### Description

Antigen standard for ATPase, Na<sup>+</sup>/K<sup>+</sup> transporting, alpha 1 polypeptide (ATP1A1), 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.

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

**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** [ATP1A1 ATPase, Na<sup>+</sup>/K<sup>+</sup> transporting, alpha 1 polypeptide \[ Homo sapiens \]](#)

**Official Symbol** ATP1A1

**Synonyms** ATP1A1; ATPase, Na<sup>+</sup>/K<sup>+</sup> transporting, alpha 1 polypeptide; sodium/potassium-transporting ATPase subunit alpha-1; sodium pump 1; Na<sup>+</sup>/K<sup>+</sup> ATPase 1; Na,K-ATPase alpha-1 subunit; sodium pump subunit alpha-1; Na<sup>+</sup>, K<sup>+</sup> ATPase alpha subunit; Na(+)/K(+) ATPase alpha-1 subunit; Na, K-ATPase, alpha-A catalytic polypeptide; sodium-potassium-ATPase, alpha 1 polypeptide; Na,K-ATPase catalytic subunit alpha-A protein; MGC3285; MGC51750;

**Gene ID** [476](#)

**mRNA Refseq** [NM\\_000701](#)

**Protein Refseq** [NP\\_000692](#)

**MIM** [182310](#)

**UniProt ID** [P05023](#)

**Chromosome Location** 1p13

**Pathway** Aldosterone-regulated sodium reabsorption, organism-specific biosystem;

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Aldosterone-regulated sodium reabsorption, conserved biosystem; Bile secretion, organism-specific biosystem; Bile secretion, conserved biosystem; Carbohydrate digestion and absorption, organism-specific biosystem; Carbohydrate digestion and absorption, conserved biosystem; Cardiac muscle contraction, organism-specific biosystem;

**Function**

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