Recombinant Human ATP1A2 293 Cell Lysate

Cat. No. ATP1A2-8612HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	HEK293
Description	Antigen standard for ATPase, Na+/K+ transporting, alpha 2 (+) polypeptide (ATP1A2) 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	ATP1A2 ATPase, Na+/K+ transporting, alpha 2 polypeptide [Homo sapiens]
Official Symbol	ATP1A2
Synonyms	ATP1A2; ATPase, Na+/K+ transporting, alpha 2 polypeptide; ATPase, Na+/K+ transporting, alpha 2 (+) polypeptide , MHP2, migraine, hemiplegic 2; sodium/potassium-transporting ATPase subunit alpha-2; FHM2; sodium-potassium ATPase; sodium pump subunit alpha-2; Na(+)/K(+) ATPase alpha-2 subunit; Na+/K+ ATPase, alpha-B polypeptide; Na+/K+ ATPase, alpha-A(+) catalytic polypeptide; sodium/potassium-transporting ATPase alpha-2 chain; MHP2; MGC59864;
Gene ID	477
mRNA Refseq	NM_000702
Protein Refseq	NP_000693
MIM	182340
UniProt ID	P50993
Chromosome Location	1q21-q23
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	ATP binding; ATPase activity, coupled to transmembrane movement of ions, phosphorylative mechanism; cation-transporting 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; sodium:potassium-exchanging ATPase activity; sodium:potassium-exchanging ATPase activity;

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