Recombinant Human ATP1A3 293 Cell Lysate

Cat. No. ATP1A3-8611HCL **Lot. No.** (See product label)

SPECIFICATION

Species	Human
Source	HEK293
Description	Antigen standard for ATPase, Na+/K+ transporting, alpha 3 polypeptide (ATP1A3) 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.
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

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	mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION

Gene Name	ATP1A3 ATPase, Na+/K+ transporting, alpha 3 polypeptide [Homo sapiens]
Official Symbol	ATP1A3
Synonyms	ATP1A3; ATPase, Na+/K+ transporting, alpha 3 polypeptide; dystonia 12 , DYT12; sodium/potassium-transporting ATPase subunit alpha-3; Na+/K+ ATPase 3; sodium pump subunit alpha-3; Na(+)/K(+) ATPase alpha-3 subunit; Na(+)/K(+) ATPase alpha(III) subunit; sodium-potassium-ATPase, alpha 3 polypeptide; sodium/potassium-transporting ATPase alpha-3 chain; RDP; DYT12; MGC13276;
Gene ID	478
mRNA Refseq	NM_001256213
Protein Refseq	NP_001243142
MIM	182350
UniProt ID	P13637
Chromosome Location	19q13.2
Pathway	Aldosterone-regulated sodium reabsorption, organism-specific biosystem; 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

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	absorption, conserved biosystem; Cardiac muscle contraction, organism-specific biosystem;
Function	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; sodium:potassium-exchanging ATPase activity; sodium:potassium-exchanging ATPase activity;

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