

Recombinant Human ATP2A2 293 Cell Lysate

Cat. No. ATP2A2-8609HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for ATPase, Ca ⁺⁺ transporting, cardiac muscle, slow twitch 2 (ATP2A2), 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.

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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 [ATP2A2?ATPase, Ca++ transporting, cardiac muscle, slow twitch 2 \[?Homo sapiens?\(human\) \]](#)

Official Symbol [ATP2A2](#)

Synonyms ATP2A2; ATPase, Ca++ transporting, cardiac muscle, slow twitch 2; DD; DAR; ATP2B; SERCA2; sarcoplasmic/endoplasmic reticulum calcium ATPase 2; calcium pump 2; SR Ca(2+)-ATPase 2; cardiac Ca2+ ATPase; endoplasmic reticulum class 1/2 Ca(2+) ATPase; ATPase, Ca++ dependent, slow-twitch, cardiac muscle-2; calcium-transporting ATPase sarcoplasmic reticulum type, slow twitch skeletal muscle isoform; NP_001672.1; EC 3.6.3.8; NP_733765.1

Gene ID [488](#)

mRNA Refseq [NM_170665](#)

Protein Refseq [NP_733765](#)

MIM [108740](#)

UniProt ID [P16615](#)

Chromosome Location 12q24.11

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Pathway	Adrenergic signaling in cardiomyocytes, organism-specific biosystem; Alzheimer's disease, conserved biosystem; Arrhythmogenic right ventricular cardiomyopathy (ARVC), conserved biosystem; Cardiac muscle contraction, organism-specific biosystem
Function	ATP binding; calcium-transporting ATPase activity; calcium-transporting ATPase activity involved in regulation of cardiac muscle cell membrane potential

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