

Recombinant Human ATP2A2 293 Cell Lysate

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

SPECIFICATION

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.
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	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 Ca ²⁺ 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
Pathway	Adrenergic signaling in cardiomyocytes, organism-specific biosystem; Alzheimer's disease, conserved biosystem; Arrhythmogenic right ventricular cardiomyopathy

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(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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