

Human ATP2A2 Knockdown Cell Lysate

Cat. No. ATP2A2-062HKCL Lot. No. (See product label)

SPECIFICATION

Product Overview WB-validated ATP2A2 Knockdown HeLa Cell Lysate

Species Human

Source HeLa

Description

This gene encodes one of the SERCA Ca(2+)-ATPases, which are intracellular pumps located in the sarcoplasmic or endoplasmic reticula of the skeletal muscle. This enzyme catalyzes the hydrolysis of ATP coupled with the translocation of calcium from the cytosol into the sarcoplasmic reticulum lumen, and is involved in regulation of the contraction/relaxation cycle. Mutations in this gene cause Darier-White disease, also known as keratosis follicularis, an autosomal dominant skin disorder characterized by loss of adhesion between epidermal cells and abnormal keratinization. Other types of mutations in this gene have been associated with various forms of muscular dystrophies. Alternative splicing results in multiple transcript variants encoding different isoforms.

Form Cell-Tissue Lysis buffer

Molecular Mass 115 kDa

Notes

Instruction of use: This knockdown cell lysate should be paired with wild-type HeLa cell lysate for use. For Western blotting, we recommend running wild-type and knockdown lysates on the same gel, and loading each well with equal volume and equal amount of total proteins.

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Storage	Store at -20 centigrade for two years.
Concentration	Lot-specific
Shipping	Blue Ice
Components	1 vial of 100 µg WT HeLa cell lysate 1 vial of 100 µg ATP2A2 KD HeLa cell lysate
Protein Families	Druggable Genome, Transmembrane
Protein Pathways	Alzheimer's disease, Arrhythmogenic right ventricular cardiomyopathy (ARVC), Calcium signaling pathway, Cardiac muscle contraction, Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM)
Lysate QC	RT-qPCR; Western Blotting (WB)

GENE INFORMATION

Gene Name	ATP2A2 ATPase sarcoplasmic/endoplasmic reticulum Ca²⁺ transporting 2 [Homo sapiens (human)]
Official Symbol	ATP2A2
Synonyms	ATP2A2; ATPase sarcoplasmic/endoplasmic reticulum Ca ²⁺ transporting 2; DD; DAR; ATP2B; SERCA2; RHABDO2; sarcoplasmic/endoplasmic reticulum calcium ATPase 2; ATPase Ca ⁺⁺ transporting cardiac muscle slow twitch 2; ATPase, Ca ⁺⁺ dependent, slow-twitch, cardiac muscle-2; SR Ca(2+)-ATPase 2; calcium pump 2; cardiac Ca ²⁺ ATPase; endoplasmic reticulum class 1/2 Ca(2+) ATPase; EC 7.2.2.10
Gene ID	488

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mRNA Refseq	NM_170665
Protein Refseq	NP_733765
MIM	108740
UniProt ID	P16615

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