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Datasheet for ABIN7042954

anti-ATP2A2 antibody (2nd Cytoplasmic Loop)

2 Images

Overview

Quantity:	50 µL
Target:	ATP2A2
Binding Specificity:	2nd Cytoplasmic Loop, AA 498-510
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: CTPNKPSRTSMSK, corresponding to amino acid residues 498-510 of rat SERCA2
Isotype:	IgG
Characteristics:	Anti-SERCA2 Antibody is directed against an epitope of rat SERCA2. Anti-SERCA2 Antibody (ABIN7042954, ABIN7044151 and ABIN7044152)) can be used in western blot and immunocytochemistry applications and was designed to recognize SERCA2 from rat, mouse and human samples.
Purification:	Affinity purified on immobilized antigen.

Target Details

Target:	ATP2A2
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Target Details

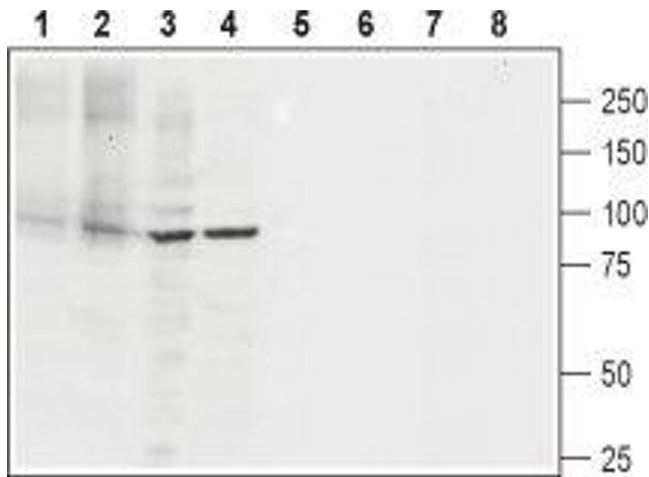
Alternative Name:	SERCA2 (ATP2A2 Products)
Background:	Alternative names: SERCA2, Sarcoplasmic/endoplasmic reticulum calcium ATPase 2, Calcium pump 2, ATP2A2
Gene ID:	29693
NCBI Accession:	NM_001681
UniProt:	P11507
Pathways:	Myometrial Relaxation and Contraction , ER-Nucleus Signaling , Ribonucleoside Biosynthetic Process

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

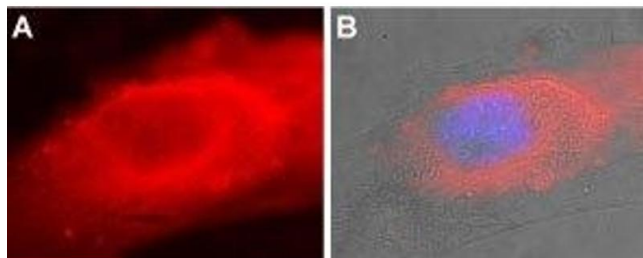
Handling

Format:	Lyophilized
Reconstitution:	25 µL, 50 µL or 0.2 mL double distilled water (DDW), depending on the sample size.
Concentration:	0.8 mg/mL
Buffer:	Reconstituted antibody contains phosphate buffered saline (PBS), pH 7.4, 1 % BSA, 0.05 % Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	RT, 4 °C, -20 °C
Storage Comment:	Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C. Storage after reconstitution: The reconstituted solution can be stored at 4°C for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).



Western Blotting

Image 1. Western blot analysis of rat heart membranes (lanes 1 and 5), mouse heart membranes (lanes 2 and 6), rat PC12 pheochromocytoma cell line lysate (lanes 3 and 7) and human Jurkat T cell leukemia cell line lysate (lanes 4 and 8): - 1-4. Anti-SERCA2 Antibody (ABIN7042954, ABIN7044151 and ABIN7044152), (1:200).5-8. Anti-SERCA2 Antibody, preincubated with SERCA2 Blocking Peptide (#BLP-CP012).



Immunocytochemistry

Image 2. Expression of SERCA2 in mouse C2C12 cells - Immunocytochemical staining of fixed and permeabilized mouse myoblast C2C12 cells. A. Cells were stained using Anti-SERCA2 Antibody (ABIN7042954, ABIN7044151 and ABIN7044152), (1:300) followed by goat anti-rabbit-AlexaFluor-594 secondary antibody (red). B. Merged image of SERCA2 labeling with a live image of the cells. Cell nuclei were visualized using Hoechst 33342 (blue).