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Datasheet for ABIN3043792 anti-ATP2A1/SERCA1 antibody (N-Term)





Overview

Quantity:	100 µg
Target:	ATP2A1/SERCA1 (ATP2A1)
Binding Specificity:	AA 1-32, N-Term
Reactivity:	Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))
Product Details	
Purpose:	Rabbit IgG polyclonal antibody for Sarcoplasmic/endoplasmic reticulum calcium ATPase 1
	(ATP2A1) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the N-terminus of human SERCA1 ATPase
	(1-32aa MEAAHAKTTEECLAYFGVSETTGLTPDQVKRN), different from the related mouse and
	rat sequences by three amino acids.
Sequence:	MEAAHAKTTE ECLAYFGVSE TTGLTPDQVK RN
lsotype:	lgG
Cross-Reactivity (Details):	Predicted Cross Reactivity: human
	No cross reactivity with other proteins.
	Predicted Cross Reactivity: Species predicted to be fit for the product based on sequence
	similarities.
Characteristics:	Rabbit IgG polyclonal antibody for Sarcoplasmic/endoplasmic reticulum calcium ATPase 1

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN3043792 | 09/11/2023 | Copyright antibodies-online. All rights reserved. (ATP2A1) detection. Tested with WB, IHC-P in Human,Mouse,Rat. Gene Name: ATPase, Ca++ transporting, cardiac muscle, fast twitch 1 Protein Name: Sarcoplasmic/endoplasmic reticulum calcium ATPase 1

Purification:

Pathways:

Immunogen affinity purified.

Target Details

Target:	ATP2A1/SERCA1 (ATP2A1)
Alternative Name:	ATP2A1 (ATP2A1 Products)
Background:	SERCA1, also called ATP2A1, is an enzyme that in humans is encoded by the ATP2A1 gene.
	This gene encodes one of the SERCA Ca(2+)-ATPases, which are intracellular pumps located in
	the sarcoplasmic or endoplasmic reticula of muscle cells. The SERCA1 gene is mapped to
	16p11.2. This enzyme catalyzes the hydrolysis of ATP coupled with the translocation of
	calcium from the cytosol to the sarcoplasmic reticulum lumen, and is involved in muscular
	excitation and contraction. It has been determined that the human SERCA1 gene is 26 kb long
	and contains 23 exons, of which can be alternatively spliced. Mutations in this gene cause
	some autosomal recessive forms of Brody disease, characterized by increasing impairment of
	muscular relaxation during exercise.
	Synonyms: fast twitch skeletal muscle isoform antibody AT2A1_HUMAN antibody ATP2A
	antibody ATP2A1 antibody ATPase Ca++ transporting cardiac muscle fast twitch 1
	antibody ATPase Ca++ transporting fast twitch 1 antibody ATPase, Ca(2+)-transporting fast
	twitch 1 antibody Calcium pump 1 antibody Calcium transporting ATPase sarcoplasmic
	reticulum type fast twitch skeletal muscle isoform antibody Calcium-transporting ATPase
	sarcoplasmic reticulum type antibody Endoplasmic reticulum class 1/2 Ca(2+) ATPase
	antibody Fast skeletal muscle SR calcium ATPase antibody 0TTHUMP00000162561
	antibody OTTHUMP00000162562 antibody Sarcoendoplasmic reticulum calcium ATPase
	antibody Sarcoplasmic reticulum Ca(2+)-ATPase 1 antibody Sarcoplasmic/endoplasmic
	reticulum calcium ATPase 1 antibody SERCA 1 antibody SERCA1 antibody SERCA1 truncated
	isoform, included antibody SR Ca(2+) ATPase 1 antibody SR Ca(2+)-ATPase 1 antibody
Gene ID:	487
UniProt:	014983

Ribonucleoside Biosynthetic Process

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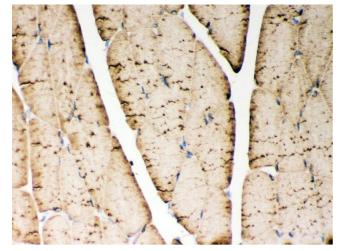
Application Details

Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Mouse, Rat, Predicted Species: Human
	IHC-P: Concentration: 0.5-1 μ g/mL, Tested Species: Mouse, Rat, Predicted Species: Human,
	Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for
	20 mins is required for the staining of formalin/paraffin sections.
	Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be
	fit for the product based on sequence similarities. Other applications have not been tested.
	Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by
	ABIN921231 in IHC(P).
Restrictions:	For Research Use only

Handling

Format:	Lyophilized	
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 μ g/mL.	
Concentration:	500 μg/mL	
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg 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.	
Handling Advice:	Avoid repeated freezing and thawing.	
Storage:	4 °C/-20 °C	
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.	

	1	2
250KD -		
130KD -		
100KD -	-	-
70KD -		
55KD -		

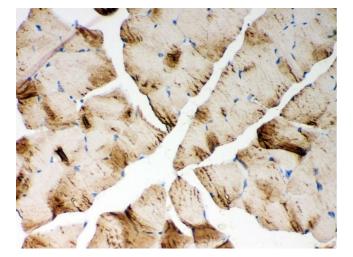


Western Blotting

Image 1. Anti- ATP2A1 antibody, Western blotting All lanes: Anti ATP2A1 at 0.5ug/ml Lane 1: Rat Skeletal Muscle Tissue Lysate at 50ug Lane 2: Mouse Skeletal Muscle Tissue Lysate at 50ug Predicted bind size: 110KD Observed bind size: 110KD

Immunohistochemistry

Image 2. Anti- ATP2A1 antibody,IHC(P) IHC(P): Rat Skeletal Muscle Tissue



Immunohistochemistry

Image 3. Anti- ATP2A1 antibody, IHC(P) IHC(P): Mouse Skeletal Muscle Tissue

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