

SERCA1 Blocking Peptide | ATP2A1 blocking peptide

SERCA1 Blocking Peptide

CATALOG # AAA105420	HOST Synthetic	REACTIVITY Human, Mouse, Rat, Bovine, Rabbit	APPLICATIONS Blocking
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PRODUCT SYNONYMS

SERCA1; SERCA1 Blocking Peptide; Sarcoplasmic/endoplasmic reticulum calcium ATPase 1; SR Ca(2+)-ATPase 1; Calcium pump 1; Calcium-transporting ATPase sarcoplasmic reticulum type; fast twitch skeletal muscle isoform; Endoplasmic reticulum class 1/2 Ca(2+) ATPase; ATP2A1 blocking peptide

PRODUCT SPECIFICATIONS

Host	Synthetic
Reactivity	Human, Mouse, Rat, Bovine, Rabbit
Purity/Purification	>85%
Form/Format	Lyophilized powder
Sequence Length	869
Applicable Applications for ATP2A1 blocking peptide	Blocking
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human SERCA1. The exact sequence is proprietary.
Entrez Gene	487 (Human); 11937 (Mouse); 116601 (Rat)
Swiss Prot	O14983 (Human); Q8R429 (Mouse); Q64578 (Rat)
Quality Control	The quality of the peptide was evaluated by reversed - phase HPLC and by mass spectrometry.
Directions for Use	Blocking Peptide to the dil uted primary antibody in a molar ratio of 10:1 (peptide to antibody) and incubate the mixture at 4 degree C for overnight or at room temperature for 2 hours.
Preparation and Storage	Shipped at 4 degree C. Store at -20 degree C for one year.

IMAGES



IHC (Immunohistochemistry)

Immunohistochemical analysis of SERCA1 staining in human muscle formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



WB (Western Blot)

Western blot analysis of SERCA1 expression in A549 (A), mouse muscle (B), rat muscle (C) whole cell lysates.

ADDITIONAL INFORMATION

Related Product Information for ATP2A1 blocking peptide	The peptide is used to block Anti - SERCA1 Antibody reactivity.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	554506571
NCBI GeneID	487
NCBI Accession #	NP_001273004.1
NCBI GenBank Nucleotide #	NM_001286075.1
UniProt Accession #	O14983; O14984; A8K5J9; B3KY17
Molecular Weight	95,199 Da
NCBI Official Full Name	sarcoplasmic/endoplasmic reticulum calcium ATPase 1 isoform c
NCBI Official Synonym Full Names	ATPase, Ca++ transporting, cardiac muscle, fast twitch 1
NCBI Official Symbol	ATP2A1
NCBI Official Synonym Symbols	ATP2A; SERCA1
NCBI Protein Information	sarcoplasmic/endoplasmic reticulum calcium ATPase 1; calcium pump 1; SR Ca(2+)-ATPase 1; endoplasmic reticulum class 1/2 Ca(2+) ATPase; calcium-transporting ATPase sarcoplasmic reticulum type, fast twitch skeletal muscle isoform
UniProt Protein Name	Sarcoplasmic/endoplasmic reticulum calcium ATPase 1
UniProt Gene Name	ATP2A1
UniProt Synonym Gene Names	SERCA1; SR Ca(2+)-ATPase 1
UniProt Entry Name	AT2A1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/synthetic-atp2a1-bovine-human-mouse-ovine-rabbit-rat-blocking-peptide/serca1/105420>