

Rabbit anti-Human SERCA2/ATP2A2 Monoclonal Antibody | anti-ATP2A2 antibody

SERCA2/ATP2A2 Rabbit mAb

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA282632	Rabbit	Human	ELISA, Immunoprecipitation, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

SERCA2/ATP2A2; Monoclonal Antibody; SERCA2/ATP2A2 Rabbit mAb; DD; DAR; ATP2B; SERCA2; anti-ATP2A2 antibody

PRODUCT SPECIFICATIONS

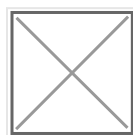
Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG
Purity/Purification	Affinity purification
Form/Format	PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH7.3.
Sequence	HFLILYVEPL PLIFQITPLN VTQWLMVLKI SLPVILMDET LKFVARNYLE PGKECVQPAT KSCSFSACTD GISWPFVLLI MPLVIWVYST DTNFSDMFWS
Applicable Applications for anti-ATP2A2 antibody	ELISA, IP (Immunoprecipitation), ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Cross Reactivity	Human, Mouse, Rat
Immunogen	A synthetic peptide corresponding to a sequence within amino acids 943-1042 of human SERCA2/ATP2A2 (P16615).
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.

IMAGES



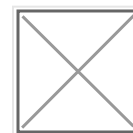
IP (Immunoprecipitation)

Immunoprecipitation analysis of 300 ug extracts of 293T cells using 3 ug SERCA2/ATP2A2 antibody (AAA282632). Western blot was performed from the immunoprecipitate using SERCA2/ATP2A2 antibody (AAA282632) at a dilution of 1:3000.



WB (Western Blot)

Western blot analysis of various lysates using SERCA2/ATP2A2 Rabbit mAb (AAA282632) at 1:1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 1s.



ICC (Immunocytochemistry)

Confocal imaging of Hep G2 cells using SERCA2/ATP2A2 Rabbit mAb (AAA282632, dilution 1:100) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with ?-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.

ADDITIONAL INFORMATION

Related Product Information for anti-ATP2A2 antibody	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.
Product Categories/Family for anti-ATP2A2 antibody	Cancer; Signal Transduction; Endocrine Metabolism; Neuroscience; Calcium Signaling; Neurodegenerative Diseases; Cardiovascular; Heart; Contractility; Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502285
NCBI GeneID	488
NCBI Accession #	NP_001672.1
NCBI GenBank Nucleotide #	NM_001681.3
UniProt Accession #	P16615; P16614; Q86VJ2; A6NDN7; B4DF05
Molecular Weight	Calculated MW: 115kDa Observed MW: 100kDa
UniProt Protein Name	Sarcoplasmic/endoplasmic reticulum calcium ATPase 2
UniProt Gene Name	ATP2A2
UniProt Synonym Gene Names	ATP2B; SERCA2
UniProt Entry Name	AT2A2_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/monoclonal/serca2-atp2a2-antibody-immunoprecipitation-immunocytochemistry-immunofluorescence-western-blot-elisa/282632>