ATP2A1 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	ATP2A1, Monoclonal Antibody
Full Product Name	Mouse Monoclonal Antibody to ATP2A1
Product Gene Name	anti-ATP2A1 antibody
Product Synonym Names	ATP2A; SERCA1
Clonality	Monoclonal
Isotype	IgG1
Clone Number	4F11F6
Host	Mouse
Molecular Weight	110kDa
OMIM	108730
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ATP2A1 antibody	Western Blot (WB)
Application Notes for anti-ATP2A1 antibody	Western blot using Recombinant protein Western blot using Transfection expressed protein Western blot using Cell lysate
Related Product Information for anti-ATP2A1 antibody	MBS8528691 is an antibody targeting ATP2A1. Also known as Mouse Monoclonal Antibody to ATP2A1. Host: Mouse.
Other Notes	Small volumes of anti-ATP2A1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ATP2A1. It may not necessarily be applicable to this product.

NCBI GI #	1207833652
NCBI GeneID	487
NCBI Accession #	OWK11162.1
UniProt Secondary Accession #	O14984; A8K5J9; B3KY17
UniProt Related Accession #	O14983
NCBI Official Full Name	ATP2A1
NCBI Official Synonym Full Names	ATPase sarcoplasmic/endoplasmic reticulum Ca2+ transporting 1
NCBI Official Symbol	ATP2A1
NCBI Official Synonym Symbols	ATP2A; SERCA1
UniProt Protein Name	Sarcoplasmic/endoplasmic reticulum calcium ATPase 1

UniProt Synonym Protein Names	Calcium pump 1; Calcium-transporting ATPase sarcoplasmic reticulum type, fast twitch skeletal muscle isoform; Endoplasmic reticulum class 1/2 Ca(2+) ATPase
Protein Family	Sarcoplasmic/endoplasmic reticulum calcium ATPase
UniProt Gene Name	ATP2A1
UniProt Synonym Gene Names	SERCA1; SR Ca(2+)-ATPase 1
NCBI Protein Information	sarcoplasmic/endoplasmic reticulum calcium ATPase 1
NCBI Summary for ATP2A1	This gene encodes one of the SERCA Ca(2+)-ATPases, which are intracellular pumps located in the sarcoplasmic or endoplasmic reticula of muscle cells. 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. Mutations in this gene cause some autosomal recessive forms of Brody disease, characterized by increasing impairment of muscular relaxation during exercise. Alternative splicing results in three transcript variants encoding different isoforms. [provided by RefSeq, Oct 2013]
UniProt Comments for ATP2A1	Key regulator of striated muscle performance by acting as the major Ca2+ ATPase responsible for the reuptake of cytosolic Ca2+ into the sarcoplasmic reticulum. Catalyzes the hydrolysis of ATP coupled with the translocation of calcium from the cytosol to the sarcoplasmic reticulum lumen. Contributes to calcium sequestration involved in muscular excitation/contraction.
Research Articles on ATP2A1	**1.** Study demonstrated that (a) the distribution and the expression levels of total SERCA1 and SERCA2, the activity of SR Ca2+ ATPase, and the oligomerization of SERCA1 are similar in patients with myotonic dystrophy 1, myotonic dystrophy 2, hypothyroid myopathy and control subjects; and (b) SERCA1b is expressed in patients with myotonic dystrophy, mainly in myotonic dystrophy 2 muscles.
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