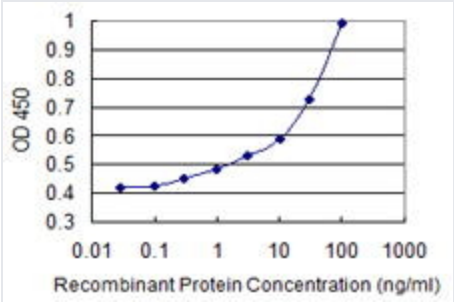
ATP2A3 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	ATP2A3, Monoclonal Antibody
Full Product Name	ATP2A3 (ATPase, Ca++ Transporting, ubiquitous, SERCA3) (HRP)
Product Gene Name	anti-ATP2A3 antibody
Product Synonym Names	ATPase; Ca++ Transporting; ubiquitous; SERCA3
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	1B9
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with horseradish peroxidase (HRP).
Purity/Purification	Purified
Specificity	Recognizes ATP2A3.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and stor stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. N inhibitor of peroxidase and should not be added to HRP conjugates. For maximum recovery of product, centrifuge the original vial after thawing and pri
Immunogen	ATP2A3 (AAH35729, 501aa-620aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	TRPHPTGQGSKMFVKGAPESVIERCSSVRVGSRTAPLTPTSREQILAKIRDWGSGSDTLRCLALATRDAPPRKEDMELDDCSKFVQYETDLTFVGCVGM
Conjugate	HRP
Product Categories/Family for anti-ATP2A3 antibody	Antibodies; Enzymes; ATPase
Applications Tested/Suitable for anti-ATP2A3 antibody	Western Blot (WB)
Application Notes for anti-ATP2A3 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-ATP2A3 antibody	MBS6182835 is an antibody targeting ATP2A3. Also known as ATP2A3 (ATPase, Ca++ Transporting, ubiquitous, SERCA3) (HRP). Host: Mouse.
Other Notes	Small volumes of anti-ATP2A3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If nece 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 ma



Testing Data of anti-ATP2A3 antibody
Detection limit for recombinant GST tagged ATP2A3 is 0.1 ng/ml as a capture antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ATP2A3. It may not necessarily be applicable to this product.

NCBI GI #	23273019
NCBI GeneID	489
NCBI Accession #	AAH35729
UniProt Related Accession #	Q93084
NCBI Official Full Name	ATPase, Ca++ transporting, ubiquitous
NCBI Official Synonym Full Names	ATPase sarcoplasmic/endoplasmic reticulum Ca2+ transporting 3
NCBI Official Symbol	ATP2A3
NCBI Official Synonym Symbols	SERCA3
Protein Family	Sarcoplasmic/endoplasmic reticulum calcium ATPase
NCBI Protein Information	sarcoplasmic/endoplasmic reticulum calcium ATPase 3
NCBI Summary for ATP2A3	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 calcium sequestration associated with muscular excitation and contraction. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]
Research Articles on ATP2A3	**1.** Data show that the nucleotide sequence from -280 to -135 position is an ATP2A3 epigenetic regulatory CpG region. SERCA3 mRNA expression is decreased during gastric and colorectal carcinoma development and tumors with high SERCA3 expression are associated with increased overall survival. These results suggest an essential role for SERCA3 in the regulation of cellular identity and growth, through cellular Ca2+ management.
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