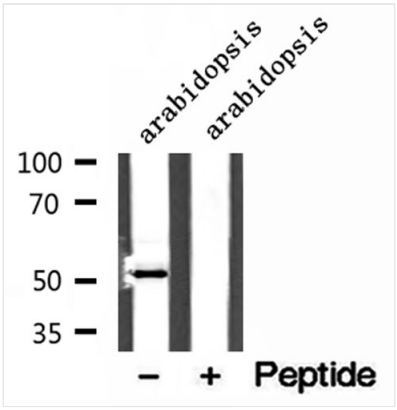
MAT1A Antibody – Rabbit Polyclonal

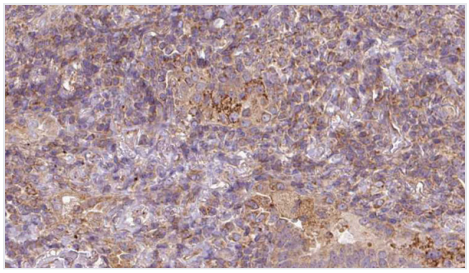
PRODUCT OVERVIEW

Product Name	MAT1A, Polyclonal Antibody
Full Product Name	MAT1A Antibody
Product Gene Name	anti-MAT1A antibody
Product Synonym Names	AdoMet; AdoMet synthetase 1; AI046368; Ams; MAT; MAT I/III; MATA1; Methionine adenosyltransferase 1; Methionine adenosyltransferase I, alpha; Methionine adenosyltransferase I/III; MGC108563; S adenosylmethionine synthetase isoform type 1; SADE; SAMS; SAMS1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Concentration	1mg/ml (lot specific)
Specificity	MAT1A antibody detects endogenous levels of MAT1A.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.
Antibody/Peptide Pairs	MAT1A peptide (MBS9620915) is used for blocking the activity of MAT1A antibody (MBS9603438)
Molecular Weight	Observed: 44-55 kDa Predicted: 44 kDa
3D Structure	ModBase 3D Structure for Q00266
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Immunogen	A synthesized peptide derived from human MAT1A.
Tissue Specificity	Expressed in liver.
Predicted Cross Reactivity	**Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken**
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (90%)
Conjugation	Unconjugated
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-MAT1A antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-MAT1A antibody	WB: 1:500-1:2000 IHC: 1:50-1:200

Related Product Information for anti-MAT1A antibody	Function: Catalyzes the formation of S-adenosylmethionine from methionine and ATP. The reaction comprises two steps that are both catalyzed by the same enzyme: formation of S-adenosylmethionine (AdoMet) and triphosphate, and subsequent hydrolysis of the triphosphate. Subunit Structure: Homotetramer (MAT-I); dimer of dimers (PubMed:23425511). Homodimer (MAT-III) (By similarity). Post-translational Modifications: S-nitrosylation of Cys-120 inactivates the enzyme.An intrachain disulfide bond can be formed. The protein structure shows that the relevant Cys residues are in a position that would permit formation of a disulfide bond. Similarity: Belongs to the AdoMet synthase family.
Other Notes	Small volumes of anti-MAT1A 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.
Searchable Terms for MAT1A purchase	MBS9603438 is an antibody targeting MAT1A. Also known as MAT1A Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-MAT1A antibody
Western blot analysis of extracts of mouse liver tissue, using MAT1A antibody.



Immunohistochemistry (IHC) of anti-MAT1A antibody
MBS9603438 at 1/100 staining Human lymph cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MAT1A. It may not necessarily be applicable to this product.

NCBI GI #	4557737
NCBI GeneID	4143
NCBI Accession #	NP_000420.1
UniProt Primary Accession #	Q00266
UniProt Secondary Accession #	Q5QP09; D3DWD5
UniProt Related Accession #	Q00266
GenBank Nucleotide #	NM_000429.2
NCBI Official Full Name	S-adenosylmethionine synthase isoform type-1
NCBI Official Synonym Full Names	methionine adenosyltransferase 1A
NCBI Official Symbol	MAT1A
NCBI Official Synonym Symbols	MAT; SAMS; MATA1; SAMS1
UniProt Protein Name	S-adenosylmethionine synthase isoform type-1
UniProt Synonym Protein Names	Methionine adenosyltransferase 1; MAT 1; Methionine adenosyltransferase I/III; MAT-I/III
Protein Family	S-adenosylmethionine synthase
UniProt Gene Name	MAT1A

UniProt Synonym Gene Names	AMS1; MATA1; AdoMet synthase 1; MAT 1; MAT-I/III
NCBI Protein Information	S-adenosylmethionine synthase isoform type-1
NCBI Summary for MAT1A	This gene catalyzes a two-step reaction that involves the transfer of the adenosyl moiety of ATP to methionine to form S-adenosylmethionine and tripolyphosphate, which is subsequently cleaved to PPi and Pi. S-adenosylmethionine is the source of methyl groups for most biological methylations. The encoded protein is found as a homotetramer (MAT I) or a homodimer (MAT III) whereas a third form, MAT II (gamma), is encoded by the MAT2A gene. Mutations in this gene are associated with methionine adenosyltransferase deficiency. [provided by RefSeq, Jul 2008]
UniProt Comments for MAT1A	Catalyzes the formation of S-adenosylmethionine from methionine and ATP. The reaction comprises two steps that are both catalyzed by the same enzyme: formation of S-adenosylmethionine (AdoMet) and triphosphate, and subsequent hydrolysis of the triphosphate.
Research Articles on MAT1A	**1.** Increased MAT1A expression is associated with recurrence in hepatocellular carcinoma.
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