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MAT1A Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP12704a

Specification

MAT1A Antibody (N-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	Q00266
Other Accession	P13444, Q91X83, Q2KJC6, NP_000420.1
Reactivity	**Human**
Predicted	**Bovine, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**107-136**

MAT1A Antibody (N-term) - Additional Information

Gene ID 4143

Other Names
S-adenosylmethionine synthase isoform type-1, AdoMet synthase 1, Methionine adenosyltransferase 1, MAT 1, Methionine adenosyltransferase I/III, MAT-I/III, MAT1A, AMS1, MATA1

Target/Specificity
This MAT1A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 107-136 amino acids from the N-terminal region of human MAT1A.

Dilution
WB~~1:1000
IHC-P~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
MAT1A Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

MAT1A Antibody (N-term) - Protein Information

Name MAT1A

Synonyms AMS1, MATA1

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.

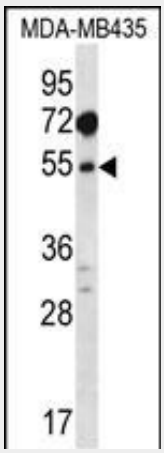
Tissue Location
Expressed in liver..

MAT1A Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

MAT1A Antibody (N-term) - Images



MAT1A Antibody (N-term) (Cat. #AP12704a) western blot analysis in MDA-MB435 cell line lysates (35ug/lane).This demonstrates the MAT1A antibody detected the MAT1A protein (arrow).

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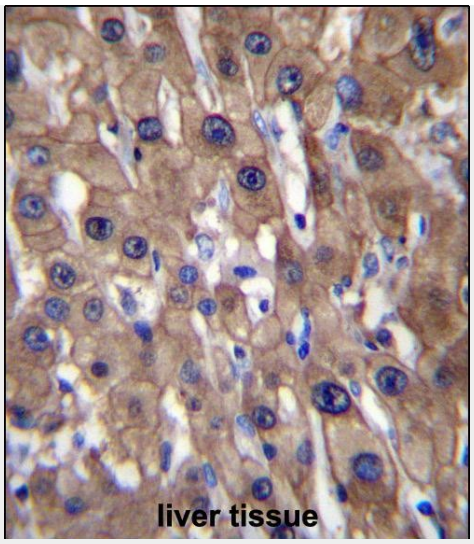

MAT1A Antibody (N-term) (Cat. #AP12704a)immunohistochemistry analysis in formalin fixed and paraffin embedded human liver tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of MAT1A Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

MAT1A Antibody (N-term) - Background

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.

MAT1A Antibody (N-term) - References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)
Wu, S.M., et al. Cell. Mol. Life Sci. 67(11):1831-1843(2010)
Lai, C.Q., et al. Am. J. Clin. Nutr. 91(5):1377-1386(2010)
Joslyn, G., et al. Alcohol. Clin. Exp. Res. 34(5):800-812(2010)
Jugessur, A., et al. PLoS ONE 5 (7), E11493 (2010) :

MAT1A Antibody (N-term) - Citations

- Glucocorticoid-induced S-adenosylmethionine Enhances the IFN Signaling Pathway by Restoring STAT1 Methylation in Hepatitis B Virus Infected Cells.
- Hepatic metabolite profiles in mice with a suboptimal selenium status.