10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

MATN1 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1466a

Product Information

Application	WB, ICC, E
Primary Accession	Q00266
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	5A8
Isotype	IgG1
Calculated MW	43648
Description	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.
Immunogen	Purified recombinant fragment of human MATN1 expressed in E. Coli.
Formulation	Ascitic fluid containing 0.03% sodium azide.

Additional Information

Gene ID	4143
Other Names	S-adenosylmethionine synthase isoform type-1, AdoMet synthase 1, 2.5.1.6, Methionine adenosyltransferase 1, MAT 1, Methionine adenosyltransferase I/III, MAT-I/III, MAT1A, AMS1, MATA1
Dilution	WB~~1/500 - 1/2000 ICC~~N/A E~~N/A
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	MATN1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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..

References

1. Biochem J. 1993 Jul 15;293 (Pt 2):481-6. 2. Am J Hum Genet. 1997 Mar;60(3):540-6. 3. Am J Hum Genet. 2000 Feb;66(2):347-55.

Images

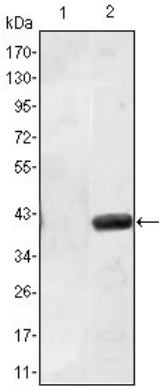


Figure 1: Western blot analysis using MATN1 mAb against HEK293 (1) and MATN1(AA: 427-496)-hIgGFc transfected HEK293 (2) cell lysate.

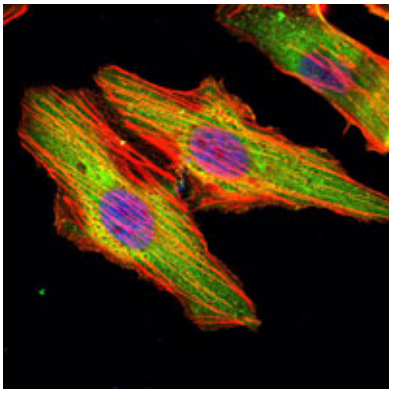


Figure 2: Immunofluorescence analysis of Hela cells using MATN1 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.