Mouse Anti-Human MAT2A Monoclonal Antibody

Cat. No. DMAB9748MH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Monoclonal Antibody to MAT2A.
Species	Human
Source	Mouse
Antigen Description	MAT2A is an important enzyme in cellular metabolism and catalyzes the formation of S-adenosylmethionine (SAMe) from L-methionine and ATP. MAT2A is expressed in extrahepatic tissues. In liver,MAT2A expression associates with growth,dedifferentiation,and cancer. NF-kappa B and AP-1 are necessary for basal MAT2A expression in HepG2 cells and mediate the increase in MAT2A expression in response to TNF-alpha. Up-regulation of MAT2A provides growth improvement and s-adenosylmethionine and methylthioadenosine thus can block mitogenic signaling in colon cancer cells. Lower expression of both MAT2A and MAT2beta and interfere with leptin signaling in liver cancer cells.
Target	MAT2A
Immunogen	Anti-human MAT2A mAb is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with recombinant human MAT2A amino acids 1-395 purified from E. coli.
Isotype	Mouse IgG2b heavy chain and κ light chain.
species	Human

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Clone	QBU4B3BU
Purification	MAT2A antibody was purified from mouse ascitic fluids by protein-G affinity chromatography.
Applications	ELISA,WB,IHC
Concentration	1mg/ml containing PBS,pH-7.4,& 0.1% Sodium Azide.
Storage	Stable for 1 year at -20 °C and 3 months at 4 °C. For maximum recovery of the product,centrifuge the original vial after thawing and before removing the cap. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	MAT2A methionine adenosyltransferase II,alpha [Homo sapiens]
Official Symbol	MAT2A
Synonyms	MAT2A;methionine adenosyltransferase II,alpha;MATA2;MATII;SAMS2;S-adenosylmethionine synthase isoform type-2;MAT 2;MAT-II;adoMet synthase 2;adoMet synthetase 2;methionine adenosyltransferase 2;EC 2.5.1.6;AdoMet synthase 2;Methionine adenosyltransferase 2;
Gene ID	4144
mRNA Refseq	NM_005911
Protein Refseq	NP_005902
MIM	601468

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UniProt ID	P31153
Chromosome Location	2p11.2
Pathway	Biological oxidations;C-MYB transcription factor network;Cysteine and methionine metabolism;Metabolic pathways;Metabolism;Metabolism of amino acids and derivatives;Methionine degradation;
Function	ATP binding;metal ion binding;methionine adenosyltransferase activity;nucleotide binding;transferase activity

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