

# Mouse Anti-Human MAT2A Monoclonal Antibody

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

## SPECIFICATION

<b>Product Overview</b>	Monoclonal Antibody to MAT2A.
<b>Species</b>	Human
<b>Source</b>	Mouse
<b>Antigen Description</b>	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.
<b>Target</b>	MAT2A
<b>Immunogen</b>	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.
<b>Isotype</b>	Mouse IgG2b heavy chain and κ light chain.
<b>species</b>	Human

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<b>Clone</b>	QBU4B3BU
<b>Purification</b>	MAT2A antibody was purified from mouse ascitic fluids by protein-G affinity chromatography.
<b>Applications</b>	ELISA,WB,IHC
<b>Concentration</b>	1mg/ml containing PBS,pH-7.4,& 0.1% Sodium Azide.
<b>Storage</b>	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

<b>Gene Name</b>	<a href="#">MAT2A methionine adenosyltransferase II,alpha [ Homo sapiens ]</a>
<b>Official Symbol</b>	MAT2A
<b>Synonyms</b>	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;
<b>Gene ID</b>	<a href="#">4144</a>
<b>mRNA Refseq</b>	<a href="#">NM_005911</a>
<b>Protein Refseq</b>	<a href="#">NP_005902</a>
<b>MIM</b>	<a href="#">601468</a>

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

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