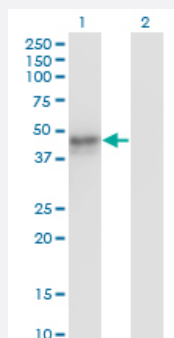


MAT1A monoclonal antibody (M01), clone 4D11

Catalog # H00004143-M01

Size 100 ug

Applications

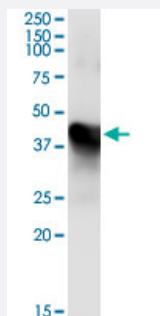


Western Blot (Transfected lysate)

Western Blot analysis of MAT1A expression in transfected 293T cell line by MAT1A monoclonal antibody (M01), clone 4D11.

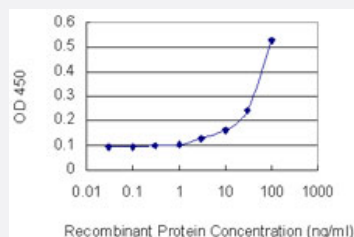
Lane 1: MAT1A transfected lysate (43.6 KDa).

Lane 2: Non-transfected lysate.



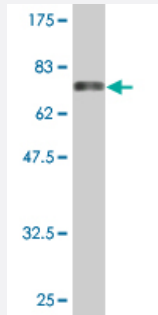
Immunoprecipitation

Immunoprecipitation of MAT1A transfected lysate using anti-MAT1A monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with MAT1A monoclonal antibody.



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged MAT1A is 1 ng/ml as a capture antibody.



Western Blot detection against Immunogen (69.19 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a full-length recombinant MAT1A.
Immunogen	MAT1A (AAH18359, 1 a.a. ~ 395 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MNGPVDGLCDHSLSEGVFMFTSESVGEGHPDKICDQISDAVLDAHLKQDPNAKVACETVCKTG MVLLCGEITSMAMVDYQRRVVRTIKHIGYDDSAKGDFKTCNVLVALEQQSPDIAQC VHLD RNEE DVGAGDQGLMFGYATDETEECMPLTILAHKLNARMADLRRSGLLPWLRPDSKTQVTVQYMQDN GAVIPVRIHTIVISVQHNEITLEEMRRALKEQVIRAVVPAKYLDEDTVYHLQPSGRFVIGGPQGDAG VTGRKIMDTYGGWGAHGGGAFSGKDYTKVDRSAAYAARWVAKSLVKAGLCRRVLVQVSYAIGV AEPLSISIFTYGTSGKTERELLDVVHKNFDLRPGVVRDLDLKKPIYQKTACYGHFGRSEFPWEVPR KLVF
Host	Mouse
Reactivity	Human
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (69.19 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Transfected lysate)

Western Blot analysis of MAT1A expression in transfected 293T cell line by MAT1A monoclonal antibody (M01), clone 4D11.

Lane 1: MAT1A transfected lysate(43.6 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Immunoprecipitation

Immunoprecipitation of MAT1A transfected lysate using anti-MAT1A monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with MAT1A monoclonal antibody.

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged MAT1A is 1 ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

Gene Info — MAT1A

Entrez GeneID	4143
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GeneBank Accession#	BC018359
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Protein Accession#	AAH18359
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Gene Name	MAT1A
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Gene Alias	MAT, MATA1, SAMS, SAMS1
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Gene Description	methionine adenosyltransferase I, alpha
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Omim ID	250850 610550
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Gene Ontology	Hyperlink
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Gene Summary

This gene catalyzes a two-step reaction that involves the transfer of the adenosyl moiety of ATP to methionine to form S-adenosylmethionine and triphosphosphate, 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]

Other Designations

OTTHUMP00000019971|S-adenosylmethionine synthetase

Pathway

- [Biosynthesis of plant hormones](#)
- [Cysteine and methionine metabolism](#)
- [Metabolic pathways](#)
- [Selenoamino acid metabolism](#)

Disease

- [Alzheimer Disease](#)
- [Cardiovascular Diseases](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Cognition Disorders](#)
- [Diabetes Mellitus](#)
- [DNA Damage](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hypertension](#)
- [Memory](#)
- [Spinal Dysraphism](#)
- [Stroke](#)