

## ARG40349 anti-MAT1A antibody

Package: 100 µl  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes MAT1A
Tested Reactivity	Hu, Ms, Rat
Tested Application	WB
Specificity	The antibody might reacts MAT2A based on sequence homology analysis.
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	MAT1A
Species	Human
Immunogen	Recombinant fusion protein corresponding to aa. 1-395 of Human MAT1A (NP_000420.1).
Conjugation	Un-conjugated
Alternate Names	SAMS1; MAT 1; MAT; Methionine adenosyltransferase I/III; MAT-I/III; Methionine adenosyltransferase 1; MATA1; AdoMet synthase 1; EC 2.5.1.6; SAMS; S-adenosylmethionine synthase isoform type-1

### Application Instructions

Application table	Application	Dilution
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Rat liver	
Observed Size	45 kDa	

### Properties

Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

---

Gene Symbol	MAT1A
Gene Full Name	methionine adenosyltransferase I, alpha
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 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, Jul 2008]
Function	Catalyzes the formation of S-adenosylmethionine from methionine and ATP. [UniProt]
Calculated Mw	44 kDa
PTM	S-nitrosylation of Cys-120 inactivates the enzyme.  An intrachain disulfide bond can be formed. The protein structure shows that the relevant Cys residues are in a position that would permit formation of a disulfide bond. [UniProt]

## Images

---



ARG40349 anti-MAT1A antibody WB image

Western blot: 25 µg of Rat liver lysate stained with ARG40349 anti-MAT1A antibody at 1:1000 dilution.