

## 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

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|                |   |
|----------------|---|
| 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.<br><br>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

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ARG40349 anti-MAT1A antibody WB image

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