

MAT1A rabbit monoclonal antibody

Catalog # H00004143-K

Size 100 ug x up to 3

Specification

Product Description	Rabbit monoclonal antibody raised against a human MAT1A peptide using ARM Technology.
Immunogen	A synthetic peptide of human MAT1A is used for rabbit immunization. Customer or Abnova will decide on the preferred peptide sequence.
Host	Rabbit
Library Construction	Non-fusion antibody library from rabbit spleen (ARM Technology).
Expression	Overexpression vector and transfection into 293H cell line.
Reactivity	Human
Purification	Protein A
Isotype	IgG
Quality Control Testing	Antibody reactive against human MAT1A peptide by ELISA and mammalian transfected lysate by Western Blot.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Deliverable	Up to three rabbit IgG clones of 100 ug each will be delivered to customer.
Note	1. Customer may provide cell or tissue lysate for antibody screening. 2. Rabbit monoclonal antibody generated by ARM technology is amenable to antibody engineering including F(ab) ₂ , IgG, scFv and different Fc and non-Fc conjugates per customer request.

Applications

- Western Blot (Transfected lysate)

[Protocol Download](#)

- ELISA

Gene Info — MAT1A

Entrez GeneID [4143](#)

GeneBank Accession# [MAT1A](#)

Gene Name MAT1A

Gene Alias MAT, MATA1, SAMS, SAMS1

Gene Description methionine adenosyltransferase I, alpha

Omim ID [250850 610550](#)

Gene Ontology [Hyperlink](#)

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](#)