

**MAT1A Antibody (N-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP12704a****Specification**

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**MAT1A Antibody (N-term) Blocking peptide - Product Information**Primary Accession [Q00266](#)**MAT1A Antibody (N-term) Blocking peptide - Additional Information****Gene ID** 4143**Other Names**

S-adenosylmethionine synthase isoform type-1, AdoMet synthase 1, Methionine adenosyltransferase 1, MAT 1, Methionine adenosyltransferase I/III, MAT-I/III, MAT1A, AMS1, MATA1

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**MAT1A Antibody (N-term) Blocking peptide - Protein Information****Name** MAT1A**Synonyms** AMS1, MATA1**Function**

Catalyzes the formation of S-adenosylmethionine from methionine and ATP. The reaction comprises two steps that are both catalyzed by the same enzyme: formation of S-adenosylmethionine (AdoMet) and triphosphate, and subsequent hydrolysis of the triphosphate.

**Tissue Location**

Expressed in liver..

**MAT1A Antibody (N-term) Blocking peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

**MAT1A Antibody (N-term) Blocking peptide - Images**

**MAT1A Antibody (N-term) Blocking peptide - 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.

**MAT1A Antibody (N-term) Blocking peptide - References**

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Wu, S.M., et al. Cell. Mol. Life Sci. 67(11):1831-1843(2010) Lai, C.Q., et al. Am. J. Clin. Nutr. 91(5):1377-1386(2010) Joslyn, G., et al. Alcohol. Clin. Exp. Res. 34(5):800-812(2010) Jugessur, A., et al. PLoS ONE 5 (7), E11493 (2010) :