

HRP-anti-SAM 1

Product name	HRP-anti-SAM 1
Catalog Number	MAH00201-50/100
Description	Horseradish peroxidase (HRP) conjugated anti-S-adenosylmethionine monoclonal antibody clone 118-6
Specificity	MAH00201 shows the following reactivities with related compounds: S-Adenosylmethionine: 100%, S-Adenosylhomocysteine: < 1% , Adenosine: < 1%, L-Methionine: < 1%, Methythioadenosine (MTA): < 1%, ADP (adenosine diphosphate): < 1%, ATP (adenosine triphosphate): < 1%
Immunogen	S- Adenosylmethionine analog Aza-SAM conjugated to KLH.

Properties

Form	Liquid
Storage instructions	Store at 4°C, -20°C for long term storage
Storage buffer	PBS 10mM pH 7.4 (NaCl 150mM), Proclin 0.1%, Glycerol 50%, BSA 10mg/ml
Purity	>95% Purified from mouse ascites fluid by affinity chromatography
Clonality	Monoclonal
Clone number	118-6
Immunoglobulin isotype	IgG2b
Research Areas	Methylation of biomolecules (DNA, RNA, proteins, hormones, neurotransmitters, etc.) One-carbon metabolism Signal Transduction Metabolism Pathways and Processes Cancers Arthritis Heart diseases Neurodegenerative diseases Atherosclerosis Liver diseases Kidney diseases

Applications

The use of MAH00201 in the following tested applications has been tested.

The application notes include recommended starting dilutions. Optimal dilutions/concentrations should be determined by the end user. Higher dilution than suggested maybe used in IHC and IF. The product may be used in other not-yet-tested applications. Refer to Cat # MA00201 for details.

Application	Notes
cELISA	1/10,000 - 1/100,000 (depending on the amount of coating)

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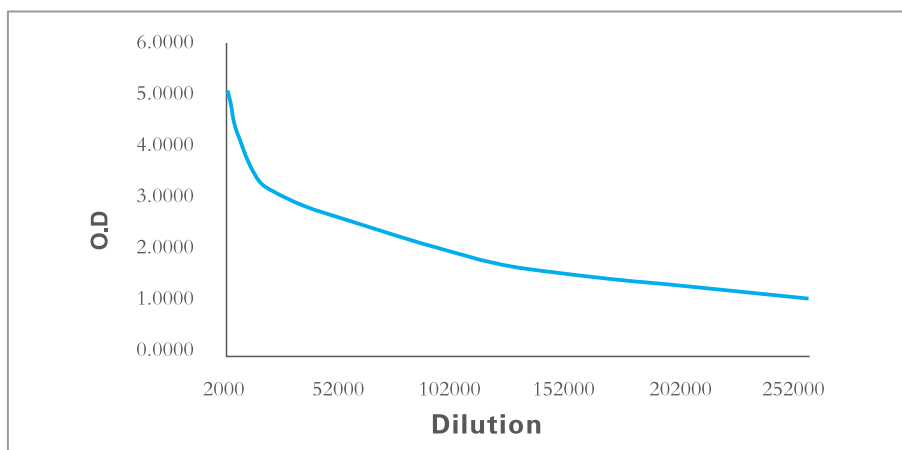


Figure 1 Titer of HRP-118-6 The 0.25 µg/ml of SAM coating standard (Cat # ACT00201) was coated on micro-titer wells. The HRP-118-6 was serially diluted and added to the wells. After incubation of about 60 minutes, substrates were added and OD450 was measured.

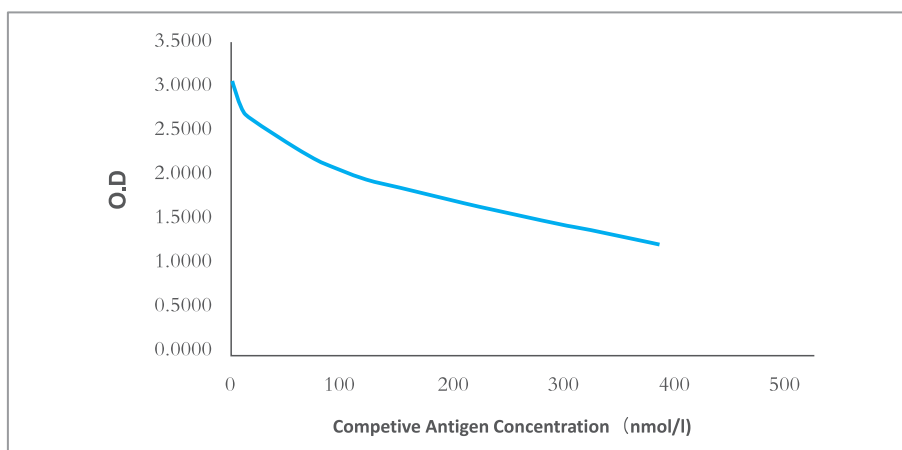


Figure 2 The standard curve with HRP-118-6 in direct competitive ELISA using 4-parameter logistic non-linear regression model. The 0.25 µg/ml of SAM coating standard (Cat # ACT00201) was coated on micro-titer wells. Serial dilution of SAM standard (Cat # AST00201) was added along with 1:25,000 diluted HRP-118-6 and was incubated for about 60 minutes. The substrates were then added and OD450 was measured.

Target

Relevance S- Adenosylmethionine is a common co-substrate involved in methyl group transfers. It is made from adenosine triphosphate (ATP) and methionine by methionine adenosyltransferase. Transmethylation, transsulfuration, and aminopropylation are the metabolic pathways that use SAM. Although these anabolic reactions occur throughout the body, most SAM is produced and consumed in the liver.

Cellular localization

Cytoplasm, nuclear