

HRP-anti-SAH 1a/b

Product name	HRP-anti-SAH 1a/b
Catalog Number	MAH00301-50/100
Description	Horseradish peroxidase (HRP) conjugated anti-S-adenosylhomocysteine monoclonal antibody clone 301-3
Specificity	MAH00301 shows the following reactivities with related compounds: S-Adenosylhomocysteine: 100%, S-Adenosylmethionine: < 3%, Adenosine: < 1%, Homocysteine:<1%,L-Cysteine: < 1%, Glutathione: < 1%, L-Cystathionine: < 1%, Methythioadenosine (MTA): < 5%, ADP (adenosine diphosphate): < 1%, ATP (adenosine triphosphate): < 1%.
Immunogen	S-Adenosylhomocysteine conjugated to BSA

Properties

Form	Liquid
Storage instructions	Store at -20°C
Storage buffer	PBS 10mM pH7.4 (NaCl 150mM), Proclin 0.1%, Glycerol 50%, BSA 10mg/ml
Purity	>95% Purified from mouse ascites fluid by affinity chromatography
Clonality	Monoclonal
Clone number	301-3
Immunoglobulin isotype	IgG3
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 MAH00301 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. The product may be used in other not-yet-tested applications. Refer to Cat # MA00303 for details.

Application	Notes
cELISA	1/1,000 – 1/2,500 (depending on the amount of coating)

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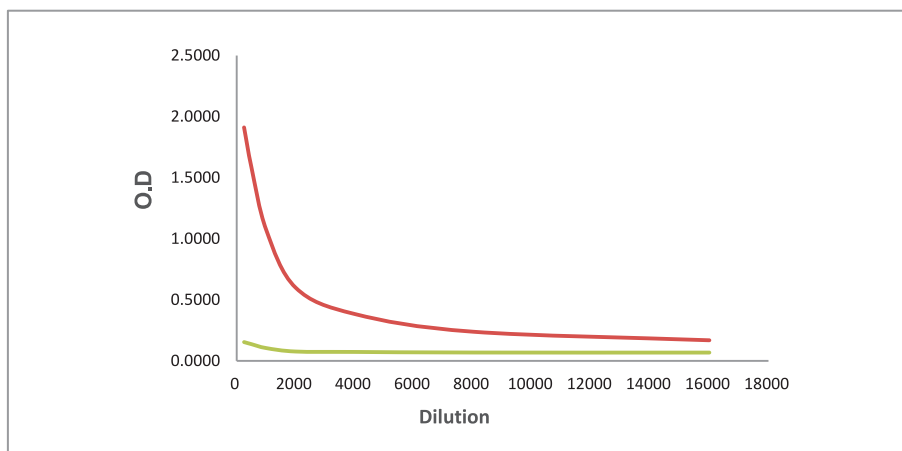


Figure 1 Titer of HRP-301-3 The 0.5 µg/ml of SAH coating standard (Cat # ACT00301 Lot # ACP420210) was coated on micro-titer wells (The top curve). The HRP-301-3 was serially diluted and added to the wells. After incubation of about 60 minutes, substrates were added and OD450 was measured. The flat curve in the bottom showed the experiment control where no SAH was coated to the plate.

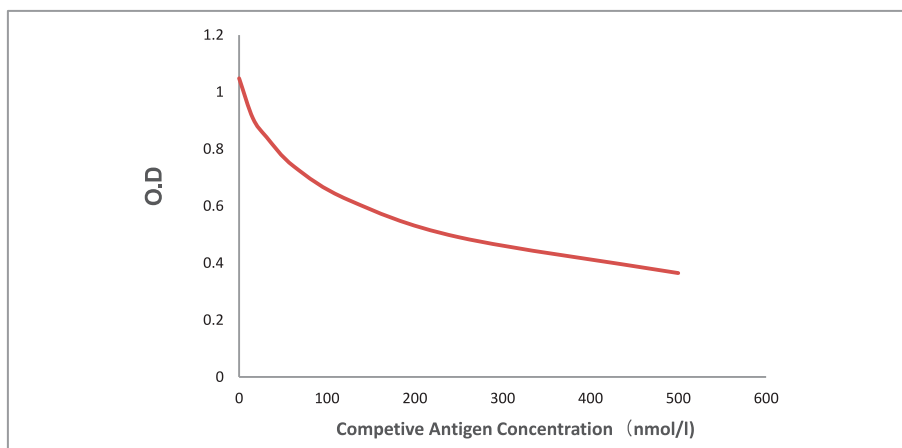


Figure 2 The standard curve with HRP-301-3 in direct competitive ELISA. The 0.5 µg/ml of SAH coating standard (Cat # ACT00301 Lot # ACP420210) was coated on micro-titer wells. Serial dilution of SAH standard (Cat # AST00301) was added along with 1:1,500 diluted HRP-301-3 and was incubated for about 60 minutes. The substrates were then added and OD450 was measured.

Target

S-adenosylhomocysteine is a competitive inhibitor of S-adenosylmethionine-dependant methyl transferase reactions. Therefore, it plays a key role in the control of methylation. SAH also plays an important role in other one-carbon metabolic pathways.

Cellular localization

Cytoplasm, nuclear