Package Insert

Mouse monoclonal antibody to S-Adenosylhomocysteine (Clone 301-3) (50µl)

Catalog Number:

SAH13-A50

For Research Use Only. Not for use in diagnostic procedures.

v. 1.0

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Properties

- **Form:** Liquid
- **Storage instructions:** Store at 4°C, -20°C for long term storage
- **Storage buffer:** PBS 10mM pH 7.4 (NaCl 150mM), Sodium azide 0.02%, BSA 10mg/ml or PBS 10mM pH 7.4 (NaCl 150mM), Sodium azide 0.02%, Glycerol 50%, BSA 10mg/ml
- **Purity:** >95% Purified from mouse ascites fluid by affinity chromatography
- **Clonality:** Monoclonal
- **Clone number:** 301-3
- **Immunoglobin isotype:** IgG3
- **Affinity:** Ka = 8.32 x 10^{8}L/mol (1.20 x 10^{-9}M)
- **Specificity:** Shows the following reactivities with related compounds: SAdenosylhomocysteine: 100%, S-Adenosylmethionine: < 3%, Adenosine: <1%, Homocysteine:<1%,L-Cysteine:<1%,Glutathione: <1%,L-Cystathionine: <1%.
- **Immunogen:** S-Adenosylhomocysteine conjugated to BSA

Applications

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.

Application	Notes
cELISA	1:4000/8000
FCM	1:200
IHC	1:200

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 via regulation of the intracellular concentration of S-adenosylhomocysteine.

Cellular localization Cytoplasm, nuclear

Anti-Adenosylhomocysteine antibody [301-3]

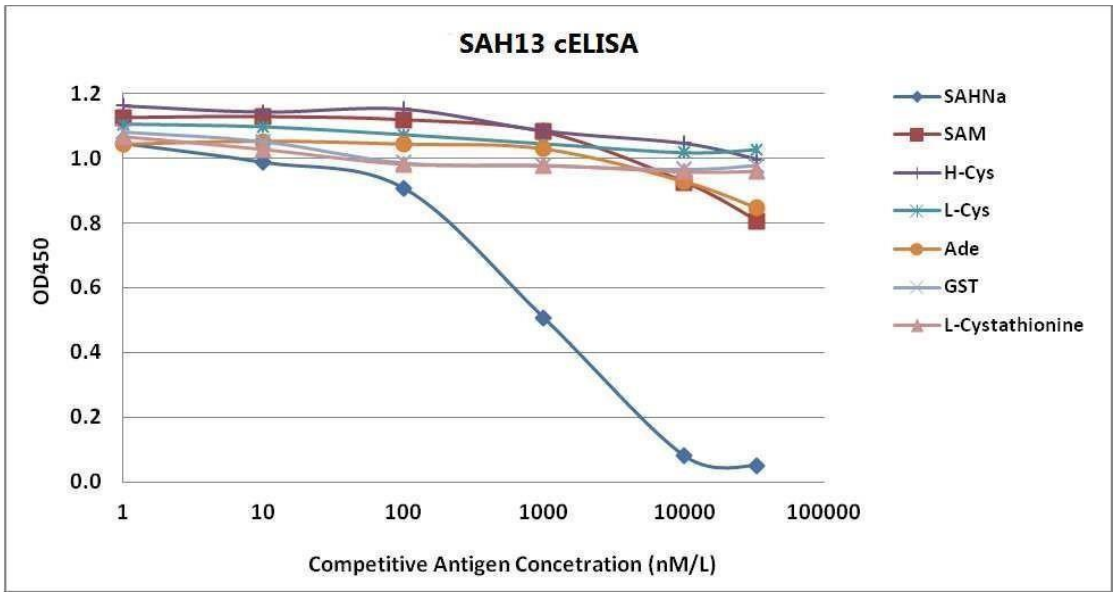

Figure 1 Competitive ELISA using anti-S-Adenosymethionine monoclonal antibody [301-3]

The 0.5 μg/ml of SAH-BSA was coated into 96 wells. Serial dilution of SAH standard (SAHNa), SAdenosylmethionine, Homocysteine (H-Cys), L-Cysteine (L-Cys), Adenosine (Ade), Glutathione (GST), L- Cystathionine (L-CTT) and properly diluted MA00303 were added. HRP conjugated Goat anti-Mouse IgG antibody was used to develop the color. OD450 value was measured on each well.

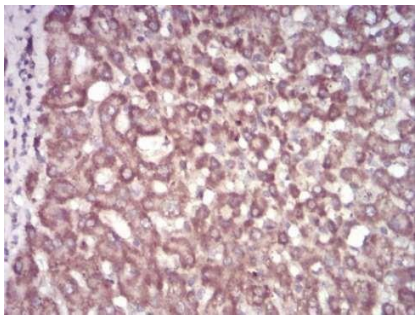

Figure 2 Immunohistochemistry staining was performed using the antibody with benign liver tissue adjacent to carcinoma. Brown areas indicated strong positive staining in nuclear and cytoplasmic areas.

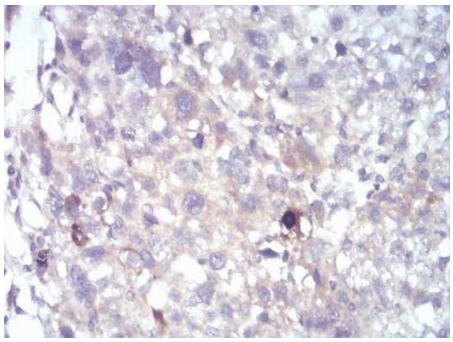

Figure 3 The same samples as in Figure 2 from liver cancer area. Cytoplasmic and nuclear areas showed negative staining.

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