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BHMT Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1234a

Specification

BHMT Antibody - Product Information

Application	**WB, IHC**
Primary Accession	Q93088
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG1**

Description
BHMT: betaine-homocysteine methyltransferase. This protein is a cytosolic enzyme that catalyzes the conversion of betaine and homocysteine to dimethylglycine and methionine, respectively. Defects in this gene could lead to hyperhomocyst(e)inemia, but such a defect has not yet been observed.

Immunogen
Purified recombinant fragment of BHMT expressed in E. Coli.

Formulation
Ascitic fluid containing 0.03% sodium azide.

BHMT Antibody - Additional Information

Gene ID 635

Other Names
Betaine--homocysteine S-methyltransferase 1, 2.1.1.5, BHMT

Dilution
WB~~1/500 - 1/2000
IHC~~1/200 - 1/1000

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
BHMT Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

BHMT Antibody - Protein Information

Name BHMT {ECO:0000303|PubMed:8798461}

Function

Involved in the regulation of homocysteine metabolism. Converts betaine and homocysteine to dimethylglycine and methionine, respectively. This reaction is also required for the irreversible oxidation of choline.

Cellular Location
Cytoplasm, cytosol {ECO:0000250|UniProtKB:O09171}. Nucleus {ECO:0000250|UniProtKB:O09171} Note=Predominantly localized in the cytoplasm with a small fraction detected in the nucleus. Translocates into the nucleus upon oxidative stress. {ECO:0000250|UniProtKB:O09171}

Tissue Location
Found exclusively in liver and kidney.

BHMT Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

BHMT Antibody - Images

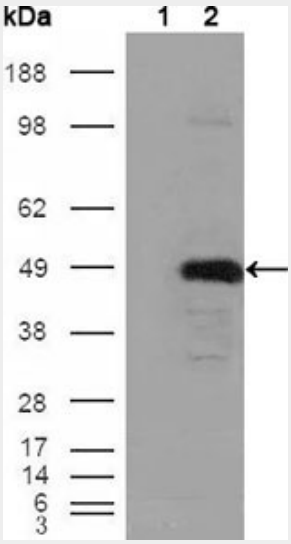


Figure 1: Figure 1: Western blot analysis using BHMT mouse mAb against HEK293T cells transfected with the pCMV6-ENTRY control (1) and pCMV6-ENTRY BHMT cDNA (2).

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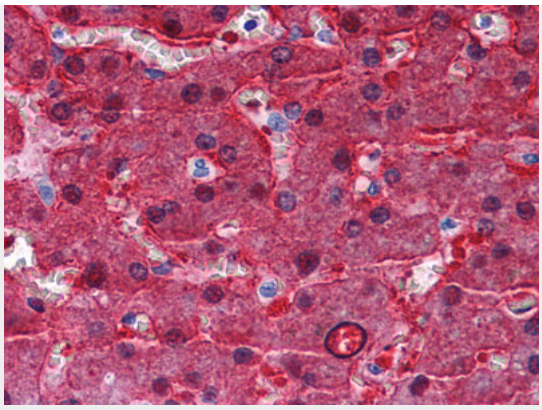


Figure 2: Immunohistochemical analysis of paraffin-embedded human Liver tissues using BHMT mouse mAb

BHMT Antibody - References

1. Genome Res. 2004 Oct;14(10B):2121-7. 2. Biochem J. 2007 Jan 1;401(1):87-96.