

BHMT Antibody

Purified Mouse Monoclonal Antibody

Catalog # AO1234a

Product Information

Application	WB, IHC, E
Primary Accession	Q93088
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	8C11H5
Isotype	IgG1
Calculated MW	44998
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.

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 E~~N/A
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.

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.

References

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

Images

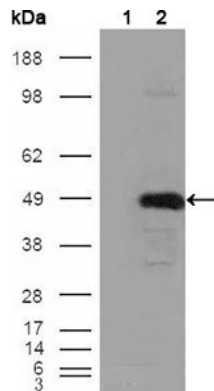


Figure 1: Western blot analysis using BHMT mouse mAb against HEK293T cells transfected with the pCMV6-ENTRY control (1) and pCMV6-ENTRY BHMT cDNA (2).

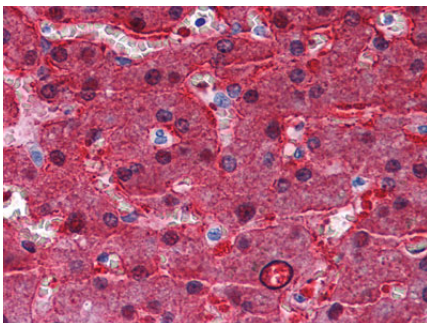


Figure 2: Immunohistochemical analysis of paraffin-embedded human Liver tissues using BHMT mouse mAb

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.