



BHMT Monoclonal Antibody

Catalog No	YP-mAb-00954
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	BHMT
Immunogen	Purified recombinant fragment of BHMT expressed in E. Coli.
Specificity	BHMT Monoclonal Antibody detects endogenous levels of BHMT protein.
Formulation	Ascitic fluid containing 0.03% sodium azide,0.5% BSA, 50%glycerol.
Source	Monoclonal, Mouse
Purification	Affinity purification
Dilution	WB: 1/500 - 1/2000.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Betaine--homocysteine S-methyltransferase 1;EC:2.1.1.5;BHMT
Observed Band	45kD
Calculated Molecular Weight	45kD
Cell Pathway	Cytoplasm, cytosol . Nucleus . Predominantly localized in the cytoplasm with a small fraction detected in the nucleus. Translocates into the nucleus upon oxidative stress. .
Tissue Specificity	Found exclusively in liver and kidney.
Function	catalytic activity:Trimethylammonioacetate + L-homocysteine = dimethylglycine + L-methionine.,cofactor:Binds 1 zinc ion per subunit.,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.,pathway:Amine and polyamine degradation; betaine degradation; sarcosine from betaine: step 1/2.,pathway:Amino-acid biosynthesis; L-methionine biosynthesis via de novo pathway; L-methionine from L-homocysteine (BhmT route): step 1/1.,similarity:Contains 1 Hcy-binding domain.,subunit:Homotetramer.,tissue specificity:Found exclusively in liver and kidney.,



Background

betaine--homocysteine S-methyltransferase(BHMT) Homo sapiens This gene encodes 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. [provided by RefSeq, Jul 2008],

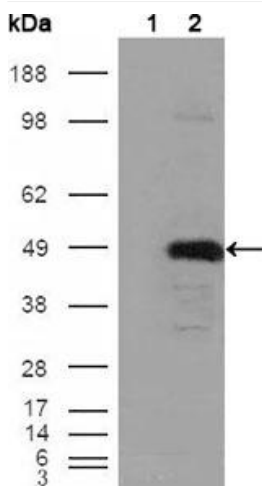
matters needing attention

Avoid repeated freezing and thawing!

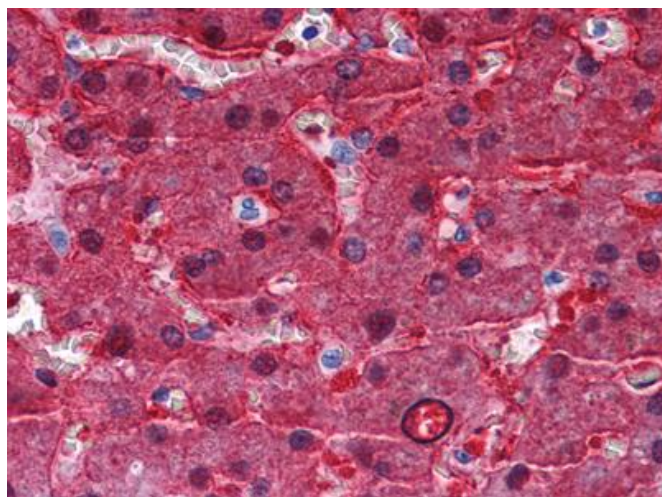
Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis using BHMT Monoclonal Antibody against HEK293T cells transfected with the pCMV6-ENTRY control (1) and pCMV6-ENTRY BHMT cDNA (2).



Immunohistochemistry analysis of paraffin-embedded human Liver tissues with AEC staining using BHMT Monoclonal Antibody.