

BHMT monoclonal antibody

Catalog: MB9090

Host: Mouse

Reactivity: Human, Mouse, Rat

BackGround:

Betaine-homocysteine methyltransferase (BHMT) is a zinc-dependent cytosolic protein that catalyzes the conversion of betaine and homocysteine to dimethylglycine and methionine, respectively. BHMT is highly expressed in rat liver, and its expression is regulated by dietary methionine and choline. In humans, S-adenosylmethionine (SAM) down-regulates BHMT expression by inducing NFκB, which acts as a repressor for the BHMT gene. Lowered BHMT levels can lead to ER (endoplasmic reticulum) stress. Mutations in the gene encoding for BHMT may lead to hyperhomocysteinemia, a medical condition characterized by abnormally large amounts of homocysteine in the blood which may be a risk factor for cardiovascular and cerebrovascular diseases.

Product:

Mouse IgG1, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

45 kDa

Swiss-Prot:

Q93088(Human) 329582(Mouse) O09171(Rat)

Purification&Purity:

ProG affinity purified.

Applications:

WB:1:1,000-1:5,000

ICC:1:50

IHC:1:50-1:200

FC:1:50-1:100

Storage&Stability:

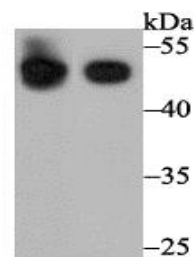
Store at +4 °C after thawing. Aliquot store at -20 °C. Avoid

repeated freeze / thaw cycles.

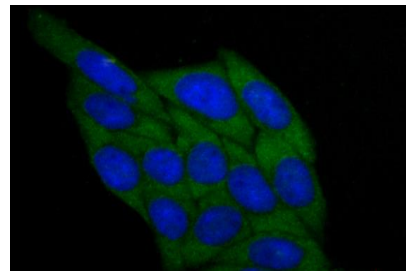
Specificity:

BHMT monoclonal antibody detects endogenous levels of BHMT protein.

DATA:



Western blot analysis of BHMT on human liver tissue and human kidney tissue lysate using anti-BHMT antibody at 1/1,000 dilution.



ICC staining BHMT (green) in SiHa cells. The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

Note:

For research use only, not for use in diagnostic procedure.

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