

Human BHMT antibody

Catalog Number: ABH0708

PRODUCT INFORMATION

Catalog number

ABH0708

Clone No.

3D6

Product type

Monoclonal Antibody

UnitProt No.

Q93088

NCBI Accession No.

AAH12616

Alternative Names

Betaine-homocysteine S-methyltransferase 1, BHMT1, Betaine homocysteine methyltransferase

PRODUCT SPECIFICATION

Antibody Host

Mouse

Reacts With

Human

Concentration

1mg/ml (determined by BCA assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen

Recombinant human BHMT (1-406aa) purified from E. coli

Isotype

IgG2a kappa

Purification Note

By protein-G affinity chromatography

Application

ELISA, WB, ICC/IF, FACS

Usage

The antibody has been tested by ELISA and Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results. Recommended dilution range for Western blot analysis is 1:1,000 ~ 2,000. Recommended starting dilution is 1:1,000.

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Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

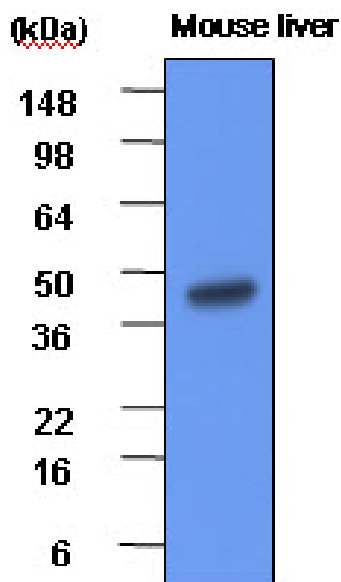
Betaine homocysteine methyltransferase (BHMT), a cytosolic enzyme, and its partial fragments were discovered as autolysosomal membrane proteins from rat liver in the presence of leupeptin. BHMT was also found in human liver. BHMT transfers a methyl group from betaine to homocysteine to form DMG (dimethylglycine) and Met. In vivo, liver BHMT expression is influenced by dietary changes in sulphur amino acids, choline and betaine.

General References

- Mckeever MP et al.,(1991) Clin Sci 81(4):551-556
- Norihiko F et al., (2001) Biochem J 129:313-320
- Francisco G et al., (2005) Biochem J 391:589-599
- Catherine M et al., (2005) Biochem J 392:443-448
- Janet D. S et al., (2006) Biochem J 395:363-371

DATA

Western blot analysis (WB)

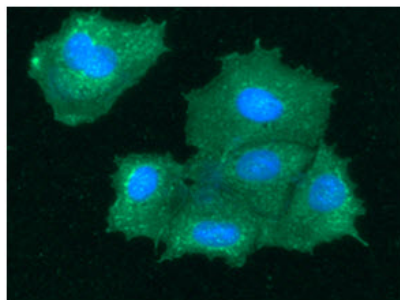


The extracts of mouse liver(each 20ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human BHMT (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Immunocytochemistry/Immunofluorescence (ICC/IF)

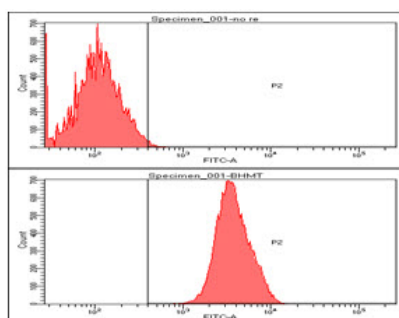
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ICC/IF analysis of BHMT in Hep3B cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human BHMT antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).

Flow cytometry (FACS)



Flow cytometry analysis of BHMT in Hep3B cell line, staining at 2-5ug for 1x10⁶cells. The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate.