

Human BHMT antibody

Catalog Number: ATGA0584

PRODUCT INFORMATION

Catalog number

ATGA0584

Clone No.

3D6

Product type

Monoclonal antibody

UnitProt No.

Q93088

NCBI Accession No.

NP_001704

Alternative Names

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

Additional Information

This product was produced from tissue culture supernatant.

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-A affinity chromatography

Application

ELISA, WB, ICC/IF, FACS

Usage

The antibody has been tested by ELISA, Western blot, ICC/IF and FACS analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain

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optimal results.

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

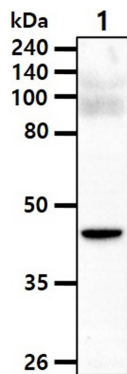
Betaine homocysteine methyltransferase (BHMT), a cytosolic enzyme, and its partial fragments were discovered as autolysosomal membrane proteins from rat liver in the presence of leupeptin. BHMT was also found in human liver. BHMT transfers a methyl group from betaine to homocysteine to form DMG (dimethylglycine) 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.

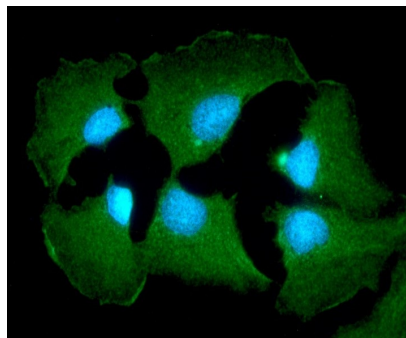
DATA

Western blot analysis (WB)



The tissue lysate (40ug) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human BHMT antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: Mouse Liver Tissue lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)

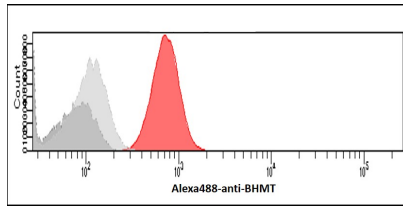


ICC/IF analysis of BHMT in Hep3B cells. The cell was stained with ATGA0584 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

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Flow cytometry (FACS)



Flow cytometry analysis of BHMT in Hep3B cells. The cell was stained with ATGA0584 at 2-5ug for 1×10^6 cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal IgG was used as the isotype control (dark gray), cells without incubation with primary and secondary antibody was used as the negative control (light gray).