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## **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  $1:1,000 \sim 2,000$ . 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**

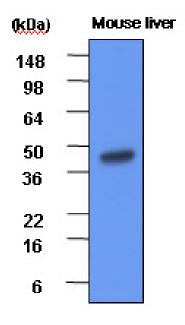
Betaine homocysteine methyltransferase (BHMT), a cytosolic enzyme, and its partial fragments were discovered as autolysosomal membrane proteins from rat liver in the presence of leupeptin. BHMT was also found in human liver. BHMT transfers a methyl group from betaine to homocysteine to form DMG (dimethylglycine)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



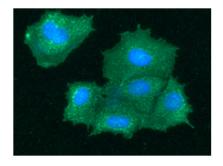
The extracts of mouse liver(each 20ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human BHMT (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Immunocytochemistry/Immunofluorescence (ICC/IF)



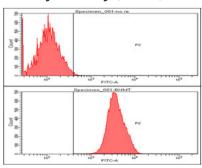
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ICC/IF analysis of BHMT in Hep3B cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human BHMT antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).

## Flow cytometry (FACS)



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

