

Mouse anti-Human, Mouse BHMT Monoclonal Antibody | anti-BHMT antibody

BHMT antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA47998	Mouse	Human, Mouse	Immunofluorescence, Immunocytochemistry, Flow Cytometry, Functional Assay, Western Blot, ELISA

PRODUCT SYNONYMS

BHMT; Monoclonal Antibody; BHMT antibody; Betaine-homocysteine methyltransferase; BHMT (Betaine-homocysteine methyltransferase); EC 2.1.1.5; Betaine--homocysteine S-methyltransferase 1; Betaine-homocysteine methyltransferase Betaine homocysteine methyltransferase; Betaine homocysteine S methyltransferase; Betaine homocysteine S methyltransferase 1; BHMT1; ; anti-BHMT antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Mouse
Clonality	Monoclonal
Isotype	IgG2a, k
Clone Number	3D6
Purity/Purification	By protein-G affinity chromatography
Form/Format	Liquid. In phosphate-buffered saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	406
Applicable Applications for anti-BHMT antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), FCM/FACS (Flow Cytometry), WB (Western Blot), ELISA
Antigen Species	Human
Immunogen	Recombinant human BHMT (1-406aa) purified from E. coli
Clone Note	Anti-human BHMT mAb, clone 3D6, is derived from hybridization of mouse SP2/O myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human BHMT protein.
Preparation and Storage	Can be stored at 4 degree C. For long term storage, aliquot and store at -20 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



IF (Immunofluorescence)

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).



WB (Western Blot)

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.

ADDITIONAL INFORMATION

Related Product Information for anti-BHMT antibody	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.
Product Categories/Family for anti-BHMT antibody	Enzymes & Proteases
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

NCBI AND UNIPROT INFORMATION

NCBI GI #	15214972
NCBI GeneID	635
Molecular Weight	44,998 Da
NCBI Official Full Name	Betaine-homocysteine methyltransferase
NCBI Official Synonym Full Names	betaine--homocysteine S-methyltransferase
NCBI Official Symbol	BHMT
NCBI Official Synonym Symbols	BHMT1; HEL-S-61p
NCBI Protein Information	betaine--homocysteine S-methyltransferase 1
UniProt Protein Name	Betaine--homocysteine S-methyltransferase 1
UniProt Gene Name	BHMT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.