

**BHMT Antibody (C-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP10211b****Specification**

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**BHMT Antibody (C-term) Blocking peptide - Product Information**

Primary Accession [O93088](#)  
Other Accession [NP\\_001704.2](#)

**BHMT Antibody (C-term) Blocking peptide - Additional Information**

**Gene ID** 635

**Other Names**

Betaine--homocysteine S-methyltransferase 1, BHMT

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**BHMT Antibody (C-term) Blocking peptide - Protein Information**

**Name** BHMT {ECO:0000303|PubMed:8798461}

**Function**

Involved in the regulation of homocysteine metabolism. Converts betaine and homocysteine to dimethylglycine and methionine, respectively. This reaction is also required for the irreversible oxidation of choline.

**Cellular Location**

Cytoplasm, cytosol {ECO:0000250|UniProtKB:O09171}. Nucleus {ECO:0000250|UniProtKB:O09171} Note=Predominantly localized in the cytoplasm with a small fraction detected in the nucleus. Translocates into the nucleus upon oxidative stress. {ECO:0000250|UniProtKB:O09171}

**Tissue Location**

Found exclusively in liver and kidney.

**BHMT Antibody (C-term) Blocking peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

#### **BHMT Antibody (C-term) Blocking peptide - Images**

#### **BHMT Antibody (C-term) Blocking peptide - Background**

This gene encodes a cytosolic enzyme that catalyzes the conversion of betaine and homocysteine to dimethylglycine and methionine, respectively. Defects in this gene could lead to hyperhomocyst(e)inemia, but such a defect has not yet been observed.

#### **BHMT Antibody (C-term) Blocking peptide - References**

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Giusti, B., et al. Thromb. Haemost. 104(2):231-242(2010) Hobbs, C.A., et al. Obstet Gynecol 116 (2 PT 1), 316-322 (2010) :Liu, C.Y., et al. Carcinogenesis 31(7):1259-1263(2010) Jugessur, A., et al. PLoS ONE 5 (7), E11493 (2010) :