10320 Camino Santa Fe, Suite G
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BHMT Antibody (clone 8C11H5)

Mouse Monoclonal Antibody
Catalog # ALS13155

Specification

BHMT Antibody (clone 8C11H5) - Product Information

Application	**IHC**
Primary Accession	Q93088
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Calculated MW	**45kDa KDa**

BHMT Antibody (clone 8C11H5) - Additional Information

Gene ID 635

Other Names
Betaine--homocysteine S-methyltransferase 1, 2.1.1.5, BHMT

Target/Specificity
Human BHMT

Reconstitution & Storage
Long term: -20°C; Short term: +4°C. Avoid repeat freeze-thaw cycles.

Precautions
BHMT Antibody (clone 8C11H5) is for research use only and not for use in diagnostic or therapeutic procedures.

BHMT Antibody (clone 8C11H5) - 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.

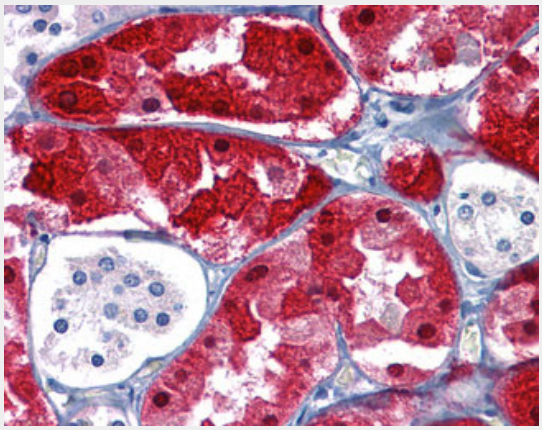
Volume
50 µl

BHMT Antibody (clone 8C11H5) - Protocols

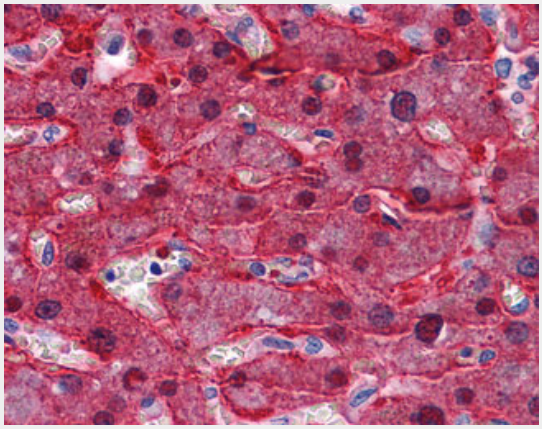
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

BHMT Antibody (clone 8C11H5) - Images



Anti-BHMT antibody IHC of human kidney.



Anti-BHMT antibody IHC of human liver.

BHMT Antibody (clone 8C11H5) - Background

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.

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BHMT Antibody (clone 8C11H5) - References

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Park E.I.,et al.J. Biol. Chem. 274:7816-7824(1999).
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Millian N.S.,et al.Arch. Biochem. Biophys. 356:93-98(1998).
Evans J.C.,et al.Structure 10:1159-1171(2002).