

Product Datasheet

BHMT Antibody NBP1-00161

Unit Size: 0.1 mg

Store at -20C. Avoid freeze-thaw cycles.

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NBP1-00161**BHMT Antibody**

Product Information	
Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris saline (20 mM Tris pH 7.3, 150 mM NaCl), 0.5% BSA

Product Description	
Host	Goat
Gene ID	635
Gene Symbol	BHMT
Species	Human, Mouse, Rat
Immunogen	Peptide with sequence C-EQQLKELFEKQK corresponding to C-Terminus according to NP_001704.1 .

Product Application Details	
Applications	Western Blot, Immunohistochemistry, Immunohistochemistry-Paraffin, Peptide ELISA
Recommended Dilutions	Western Blot 0.03 - 0.1 ug/mL, Immunohistochemistry 5 ug/mL, Immunohistochemistry-Paraffin 5 ug/mL, Peptide ELISA Detection limit 1:16000
Application Notes	Approx 45 kDa band observed in Rat Liver lysates (calculated MW of 44.9 kDa according to human NP_001704.1, 45.0 kDa according to mouse NP_057877.1 and rat NP_110477.1). This product has been successfully used in WB on Mouse (PMID:28605831, 23807810 and 22209966). In transfected HEK293 transiently expressing BHMT a band of approx. 49kDa is observed. This band is not observed in the non-transfected HEK293.



Images

Western Blot: BHMT Antibody [NBP1-00161] - Rat Liver lysate (35 ug protein in RIPA buffer). Antibody at 0.03 ug/mL. Primary incubation was 1 hour. Detected by chemiluminescence.

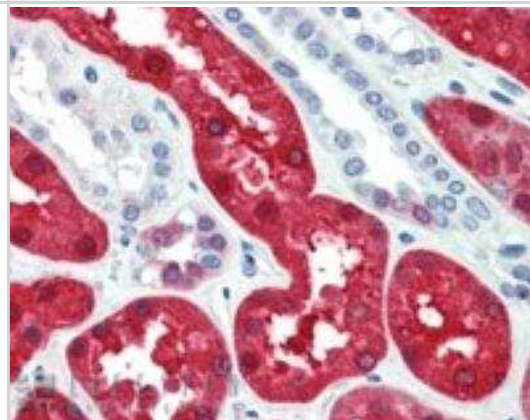
250kDa
150kDa
100kDa

75kDa
50kDa
37kDa

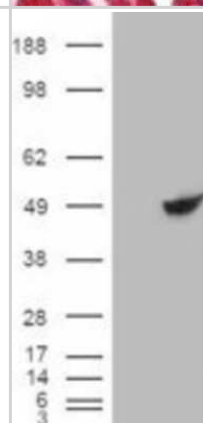
25kDa
20kDa

15kDa

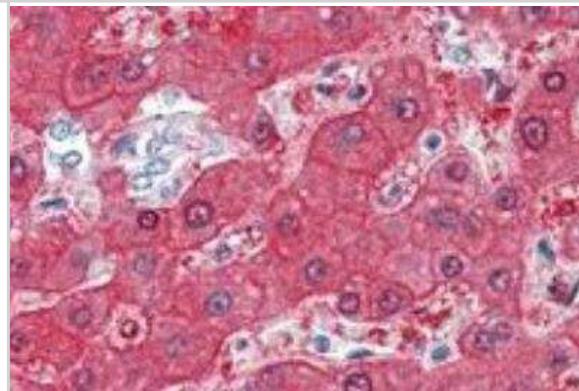
Immunohistochemistry-Paraffin: BHMT Antibody [NBP1-00161] - Human Kidney tissue. Antibody at 5 ug/mL. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



Western Blot: BHMT Antibody [NBP1-00161] - HEK293 overexpressing BHMT and probed with this antibody (mock transfection in first lane).



Immunohistochemistry-Paraffin: BHMT Antibody [NBP1-00161] - Human Liver tissue. Antibody at 5 ug/mL. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



Publications

Collinsova M, Strakova J, Jiracek J, Garrow TA. Inhibition of betaine-homocysteine S-methyltransferase causes hyperhomocysteinemia in mice. J Nutr 2006-06-01 [PMID: 16702310]

Geillinger Kerstin E, Rathmann Daniel, Kohrle Josef et al. Hepatic metabolite profiles in mice with a suboptimal selenium status. J Nutr Biochem. 2014-05-02 [PMID: 24917045] (Mouse)

Dahlhoff C, Worsch S, Sailer M et al. Methyl-donor supplementation in obese mice prevents the progression of NAFLD, activates AMPK and decreases acyl-carnitine levels Mol Metab. 2014-08-01 [PMID: 25061561] (WB, Mouse)

Details:

BHMT antibody used for WB on liver tissue lysates of eight week-old male C57BL/6NCrl mice subjected to the following dietary regimns - control, high-fat, , control/methyl-donor supplemented group/CMS and high fat methyl-donor supplemented/HFMS animals (Figure 4).

Dahlhoff C, Desmarchelier C, Sailer M et al. Hepatic Methionine Homeostasis Is Conserved in C57BL/6N Mice on High-Fat Diet Despite Major Changes in Hepatic One-Carbon Metabolism. PLoS One 2013-01-01 [PMID: 23472083] (WB, Mouse)





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Products Related to NBP1-00161

NBL1-07976	BHMT Overexpression Lysate
HAF017	Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
HAF109	Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB410-28088-1mg	Goat IgG Isotype Control

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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