

For Research Use Only

BHMT Recombinant antibody

Catalog Number: 86372-1-RR



Basic Information

Catalog Number:

86372-1-RR

Size:

100ul, Concentration: 1000 µg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG8738

GenBank Accession Number:

BC012616

GeneID (NCBI):

635

UNIPROT ID:

Q93088

Full Name:

betaine-homocysteine methyltransferase

Calculated MW:

406 aa, 45 kDa

Observed MW:

45 kDa

Purification Method:

Protein A purification

CloneNo.:

250978E3

Recommended Dilutions:

WB: 1:5000-1:50000

IP: 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

Applications

Tested Applications:

WB, IP, ELISA

Species Specificity:

human, rat

Positive Controls:

WB: rat liver tissue, human kidney tissue

IP: rat liver tissue,

Background Information

Betaine-homocysteine methyltransferase (BHMT) is a cytosolic enzyme that involved in the regulation of homocysteine metabolism. BHMT catalyzes the conversion of betaine and homocysteine to dimethylglycine and methionine, respectively. This reaction is also required for the irreversible oxidation of choline (PMID: 8798461, 10529246).

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

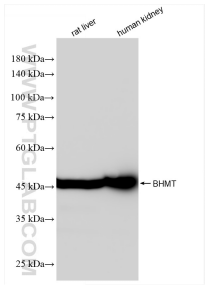
For technical support and original validation data for this product please contact:

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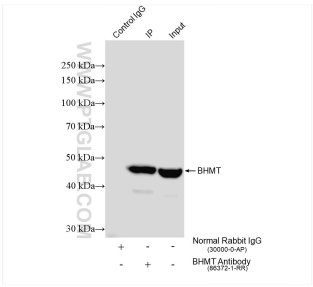
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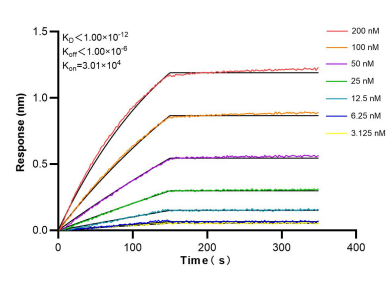
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 86372-1-RR (BHMT antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



IP result of anti-BHMT (IP:86372-1-RR, 4ug; Detection:86372-1-RR 1:3000) with rat liver tissue lysate 3080 ug.



Biolayer interferometry (BLI) kinetic assays of 86372-1-RR against Human BHMT were performed. The affinity constant is below 1 pM.