



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Goat Anti-BHMT

With HRP-conjugated Secondary Antibody

Catalog No.

ER-14-0232

Accession Number

NP_001704.1

Target Protein

Principal Names: betaine-homocysteine methyltransferase, BHMT

Official Symbol: BHMT

Accession Number(s): NP_001704.1

Human GeneID(s): 635

Non-Human GeneID(s): 12116 (mouse), 81508 (rat)

Immunogen

Peptide with sequence C-EQQLKELFEKQK, from the C Terminus of the protein sequence according to NP_001704.1 .

Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin. Aliquot and store at -20°C. Minimize freezing and thawing.

Applications Tested

Peptide ELISA: antibody detection limit dilution 1:16000.

Western blot: Approx 45kDa band observed in Human Liver, Mouse Liver and Rat Liver lysates (calculated MW of 44.9kDa according to human NP_001704.1, 45.0kDa according to mouse NP_057877.1 and rat NP_110477.1). In transfected HEK293 transiently expressing BHMT a band of approx. 49kDa is observed. This band is not observed in the non-transfected HEK293. Recommended concentration: 0.03-0.1µg/ml.

IHC: In paraffin embedded Human Kidney shows strong cytoplasm staining in PCT cells. Recommended concentration, 2-4µg/ml.

Species Reactivity

Tested: Human, Mouse, Rat

Expected from sequence similarity: Human, Mouse, Rat, Dog

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



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Specific Reference

This antibody has been successfully used in the following papers:

Ryu CS, Kwak HC, Lee KS, Kang KW, Oh SJ, Lee KH, Kim HM, Ma JY, Kim SK.

Sulfur amino acid metabolism in doxorubicin-resistant breast cancer cells.

Toxicol Appl Pharmacol. 2011 Jun 14.

PMID: 21703291

Secondary Antibody Applications

Immunoassay (ELISA, Western blotting): 1:5,000-1:10,000

Image



ER-14-0232 (0.03 μ g/ml) staining of Rat Liver lysate (35 μ g protein in RIPA buffer).
Primary incubation was 1 hour. Detected by chemiluminescence.

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