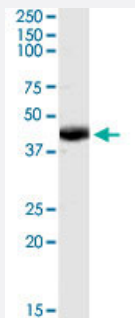


BHMT polyclonal antibody

Catalog # PAB7525

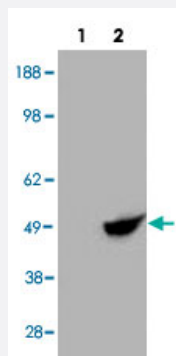
Size 100 ug

Applications



Western Blot (Tissue lysate)

BHMT polyclonal antibody (Cat # PAB7525) (0.03 ug/mL) staining of rat liver lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



Western Blot (Transfected lysate)

HEK293 overexpressing BHMT and probed with BHMT polyclonal antibody (Cat # PAB7525) (mock transfection in first lane), tested by Origene.

Specification

Product Description	Goat polyclonal antibody raised against synthetic peptide of BHMT.
Immunogen	A synthetic peptide corresponding to C-terminus of human BHMT.
Sequence	C-EQQLKELFEKQK
Host	Goat
Theoretical MW (kDa)	44.9
Reactivity	Human, Mouse, Rat

Form	Liquid
Purification	Antigen affinity purification
Concentration	0.5 mg/mL
Recommend Usage	ELISA (1:16000) Western blot (0.03-0.1 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (2-4 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In Tris saline, pH 7.3 (0.5% BSA, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Tissue lysate)

BHMT polyclonal antibody (Cat # PAB7525) (0.03 ug/mL) staining of rat liver lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

- Western Blot (Transfected lysate)

HEK293 overexpressing BHMT and probed with BHMT polyclonal antibody (Cat # PAB7525) (mock transfection in first lane), tested by Origene.

- Immunohistochemistry

- Enzyme-linked Immunoabsorbent Assay

Gene Info — BHMT

Entrez GeneID	635
Protein Accession#	NP_001704.1
Gene Name	BHMT
Gene Alias	-
Gene Description	betaine-homocysteine methyltransferase

Omim ID	602888
Gene Ontology	Hyperlink
Gene Summary	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. [provided by RefSeq
Other Designations	betaine homocysteine methyltransferase

Publication Reference

- [Regulation of FOXO3 by phosphorylation and methylation in hepatitis C virus infection and alcohol exposure.](#)

Tikhanovich I, Kuravi S, Campbell RV, Kharbanda K, Artigues A, Villar MT, Weinman SA.
Hepatology 2014 Jan; 59(1):58.

- [Inhibition of betaine-homocysteine S-methyltransferase causes hyperhomocysteinemia in mice.](#)

Collinsova M, Strakova J, Jiracek J, Garrow TA.
The Journal of Nutrition 2006 Jun; 136(6):1493.

Application: WB-Ti, Mouse, Liver

Pathway

- [Cysteine and methionine metabolism](#)
- [Glycine](#)
- [Metabolic pathways](#)

Disease

- [Abruptio Placentae](#)
- [Adenocarcinoma](#)
- [Aortic Aneurysm](#)
- [Atherosclerosis](#)
- [Brain Ischemia](#)

- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Calcinosis](#)
- [Cardiovascular Diseases](#)
- [Choline Deficiency](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Colorectal Neoplasms](#)
- [Coronary Artery Disease](#)
- [Coronary Disease](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Heart Defects](#)
- [Hyperhomocysteinemia](#)
- [Hypoplastic Left Heart Syndrome](#)
- [Kidney Failure](#)
- [Liver Cirrhosis](#)
- [Lung Neoplasms](#)
- [Lymphoma](#)
- [Metabolic Diseases](#)
- [Mouth Abnormalities](#)
- [Neural Tube Defects](#)
- [Obesity](#)
- [Pregnancy Complications](#)

- [Premature Birth](#)
- [Pulmonary Disease](#)
- [Spinal Dysraphism](#)
- [Stroke](#)
- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)