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GOAT ANTI-BHMT ANTIBODY

SKU: EB07943


250kDa
150kDa
100kDa
75kDa
50kDa
37kDa
25kDa
20kDa
15kDa

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SPECIFICATIONS

Formulation	Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.
Unit Size	100 µg
Storage Instructions	Aliquot and store at -20°C. Minimize freezing and thawing.
Synonym / Alias Names	betaine-homocysteine methyltransferase|BHMT
Accession ID	NP_001704.1
Blocking Peptide	EBP07943
Immunogen	Peptide with sequence C-EQQLKELFEKQK, from the C Terminus of the protein sequence according to NP_001704.1 .
Peptide Sequence	C-EQQLKELFEKQK
Purification Method	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Shipping Instructions	Refrigerated
Predicted Species	Human, Mouse, Rat, Dog
Reactive Species	Human, Mouse, Rat
Human Gene ID	635
Mouse Gene ID	12116
Rat Gene ID	81508
Product Grade	https://prod-vector-labs-pimcore-assets.s3.us-east-1.amazonaws.com/assets/products/image/elite_medium.png
IHC Results	Paraffin embedded Human Liver and Kidney. Recommended concentration: 5µg/ml.
ELISA Detection Limit	Antibody detection limit dilution 1:16000.
Western Blot	Approx 45kDa band observed in 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). This product has been successfully used in WB on Human (PMID: 27320863). This product has been successfully used in WB on Mouse (PMID:28605831, 23807810 and 22209966). This product has been successfully used in WB on Rat (Choi et al. Journal of Functional Foods 44 (2018) 65-73 and PMID:30746538). 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. Primary incubation was 1 hour.

Application Type	Pep-ELISA, WB, IHC

SELECTED REFERENCES

[{"pmid": 0, "intro": "**This antibody has been successfully used in Western blot on Rat:**", "title": "Protective effect of betaine against galactosamine-induced acute liver injury in rats", "author": "Yeo Jin Choi, Jong Deok Na, Doo Sung Jun, Young Chul Kim.", "journal": "Journal of Functional Foods 44 (2018) 65-73."}, {"pmid": 30746538, "intro": "**This antibody has been successfully used in Western blot on Rat:**", "title": "Alleviation of paraquat-induced oxidative lung injury by betaine via regulation of sulfurcontaining amino acid metabolism despite the lack of betaine-homocysteine methyltransferase (BHMT) in the lung", "author": "Jong Deok Na, Yeo Jin Choi, Doo Sung Jun and Young Chul Ki", "journal": "Food Funct. 2019 Feb 20;10(2):1225-1234"}, {"pmid": 28605831, "intro": "**This antibody has been successfully used in Western blot on Mouse:**", "title": "Age-Related Changes in Sulfur Amino Acid Metabolism in Male C57BL/6 Mice.", "author": "Jeon J, Oh JJ, Kwak HC, Yun H, Kim HC, Kim YM, Oh SJ, Kim SK.", "journal": "Biomol Ther (Seoul). 2018 Mar 1;26(2):167-174."}, {"pmid": 23807810, "intro": "**This antibody has been successfully used in Western blot on Mouse:**", "title": "Alterations in sulfur amino acid metabolism in mice treated with silymarin: a novel mechanism of its action involved in enhancement of the antioxidant defense in liver.", "author": "Kwon DY, Jung YS, Kim SJ, Kim YS, Choi DW, Kim YC.", "journal": "Planta Med. 2013 Aug;79(12):997-1002."}, {"pmid": 27320863, "intro": "**This antibody has been successfully used in Western blot on Human and Rat:**", "title": "Alleviation of hepatic fat accumulation by betaine involves reduction of homocysteine via up-regulationof betaine-homocysteine methyltransferase (BHMT).", "author": "Ahn CW, Jun DS, Na JD, Choi YJ, Kim YC.", "journal": "Biochem Biophys Res Commun. 2016 Aug 26;477(3):440-7."}, {"pmid": 24390397, "intro": "**This antibody has been successfully used on Rat:**", "title": "Alterations in the metabolomics of sulfur-containing substances in rat kidney by betaine.", "author": "Kim YC, Kwon do Y, Kim JH.", "journal": "Amino Acids. 2014 Apr;46(4):963-8."}, {"pmid": 23220616, "intro": "**This antibody has been successfully used on Mouse:**", "title": "Hepatic metabolism of sulfur amino acids in db/db mice.", "author": "Yun KU, Ryu CS, Lee JY, Noh JR, Lee CH, Lee HS, Kang JS, Park SK, Kim BH, Kim \r\nSK.", "journal": "Food Chem Toxicol. 2013 Mar;53:180-6."}, {"pmid": 21703291, "intro": "**This antibody has been successfully used on Human:**", "title": "Sulfur amino acid metabolism in doxorubicin-resistant breast cancer cells.", "author": "Ryu CS, Kwak HC, Lee KS, Kang KW, Oh SJ, Lee KH, Kim HM, Ma JY, Kim SK.", "journal": "Toxicol Appl Pharmacol. 2011 Jun 14."}, {"pmid": 22209966, "intro": "**This antibody has been successfully used in Western blot on Mouse:**", "title": "Plasma homocysteine level and hepatic sulfur amino acid metabolism in mice fed a high-fat diet.", "author": "Yun KU, Ryu CS, Oh JM, Kim CH, Lee KS, Lee CH, Lee HS, Kim BH, Kim SK.", "journal": "Eur J Nutr. 2012

Jan 1."}]

DOCUMENTS

- Data Sheet

GALLERY IMAGES

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