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# GOAT ANTI-BHMT ANTIBODY

**SKU:** EB07943


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

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# SPECIFICATIONS

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| **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. |

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| **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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