

Product datasheet for **CF500961**

BHMT Mouse Monoclonal Antibody [Clone ID: OT11E5]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OT11E5
Applications:	FC, IHC, WB
Recommended Dilution:	WB 1:2000, IHC 1:50, Flow 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human BHMT (NP_001704) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	45 kDa
Gene Name:	betaine--homocysteine S-methyltransferase
Database Link:	NP_001704 Entrez Gene 12116 Mouse Entrez Gene 81508 Rat Entrez Gene 635 Human Q93088
Background:	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.

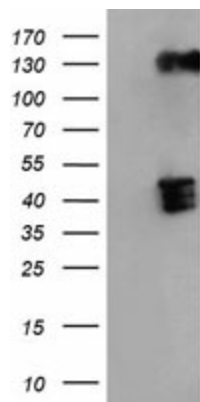


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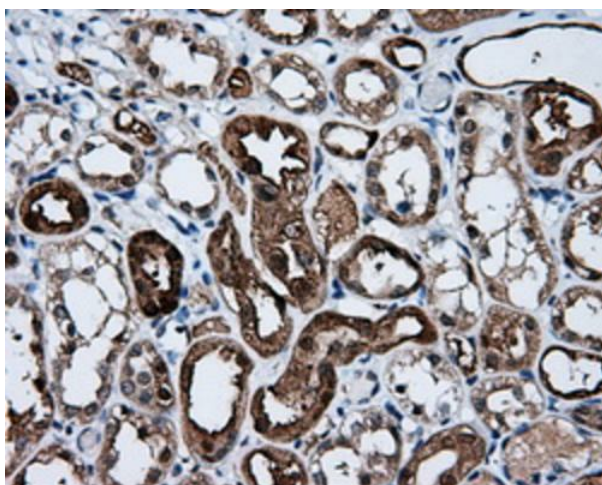
Synonyms: BHMT1; HEL-S-61p

Protein Pathways: Cysteine and methionine metabolism, Glycine, serine and threonine metabolism, Metabolic pathways

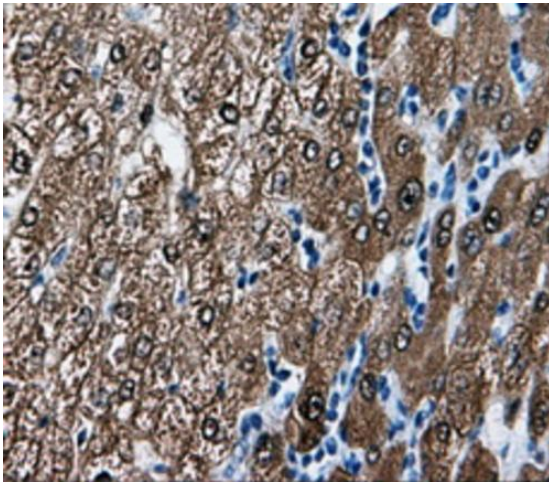
Product images:



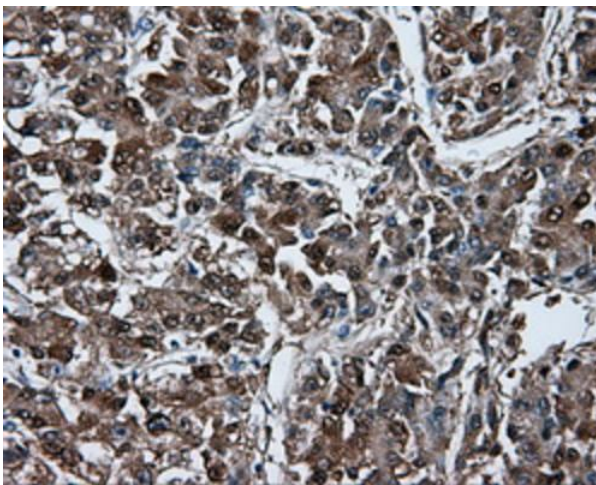
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY BHMT (Cat# [RC203148], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-BHMT(Cat# [TA500961]). Positive lysates [LY400644] (100ug) and [LC400644] (20ug) can be purchased separately from OriGene.



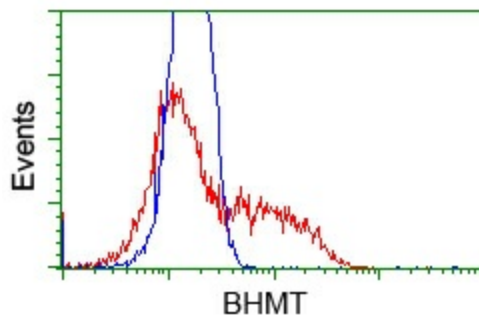
Immunohistochemical staining of paraffin-embedded Kidney tissue within the normal limits using anti-BHMT mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffin-embedded liver tissue within the normal limits using anti-BHMT mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffin-embedded Carcinoma of liver tissue using anti-BHMT mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



HEK293T cells transfected with either pCMV6-ENTRY BHMT ([RC203148]) (Red) or empty vector control plasmid (Blue) were immunostained with anti-BHMT mouse monoclonal ([TA500961]), and then analyzed by flow cytometry.