10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

phospho-BHMT1(Thr45) Rabbit pAb

Catalog # AP99127

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q93088
Other Accession	Q93088
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	44998
Physical State	Liquid
Immunogen	KLH conjugated Synthesised phosphopeptide derived from human BHMT1 around the phosphorylation site of Thr45
Epitope Specificity	PW(p-T)PE
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 Hcy-binding domain.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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, Jul 2008]

Additional Information

Gene ID	635
Other Names	BHMT1_RAT; Bhmt; 2.1.1.5; BHMT1_HUMAN; BHMT1; HEL-S-61p; betaine--homocysteine S-methyltransferase; betaine homocysteine methyltransferase; phi-crystallin; BHMT | BHMT1 (phospho-T45); p-BHMT1; phospho-BHMT1; p-BHMT; BHMT | BHMT1 (phospho-Thr45)
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	BHMT {ECO:0000303|PubMed:8798461}

Function	Involved in the regulation of homocysteine metabolism. Converts betaine and homocysteine to dimethylglycine and methionine, respectively. This reaction is also required for the irreversible oxidation of choline.
Cellular Location	Cytoplasm, cytosol {ECO:0000250|UniProtKB:O09171}. Nucleus {ECO:0000250|UniProtKB:O09171} Note=Predominantly localized in the cytoplasm with a small fraction detected in the nucleus. Translocates into the nucleus upon oxidative stress. {ECO:0000250|UniProtKB:O09171}
Tissue Location	Found exclusively in liver and kidney.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.