

# GNMT Antibody (C-term)

Purified Mouse Monoclonal Antibody (Mab)

Catalog # AM8617b

## Product Information

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Application	WB, FC, E
Primary Accession	<a href="#">Q14749</a>
Reactivity	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG2a,k
Clone Names	1041CT18.2.3
Calculated MW	32742

## Additional Information

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Gene ID	27232
Other Names	Glycine N-methyltransferase, 2.1.1.20, GNMT
Target/Specificity	This GNMT antibody is generated from a mouse immunized with a recombinant protein between 1-295 amino acids from the human GNMT.
Dilution	WB~~1:4000 FC~~1:25 E~~Use at an assay dependent concentration.
Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	GNMT Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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Name	GNMT ( <a href="#">HGNC:4415</a> )
Function	Catalyzes the methylation of glycine by using S-adenosylmethionine (AdoMet) to form N-methylglycine (sarcosine) with the concomitant production of S-adenosylhomocysteine (AdoHcy), a reaction regulated by the binding of 5-methyltetrahydrofolate. Plays an important role in the regulation of methyl group metabolism by regulating the ratio between S-adenosyl-L-methionine and S-adenosyl-L-homocysteine.

**Cellular Location** Cytoplasm {ECO:0000250|UniProtKB:P13255}.

**Tissue Location** Expressed only in liver, pancreas, and prostate.

## Background

Catalyzes the methylation of glycine by using S- adenosylmethionine (AdoMet) to form N-methylglycine (sarcosine) with the concomitant production of S-adenosylhomocysteine (AdoHcy). Possible crucial role in the regulation of tissue concentration of AdoMet and of metabolism of methionine.

## References

Chen Y.-M.A.,et al.Int. J. Cancer 75:787-793(1998).

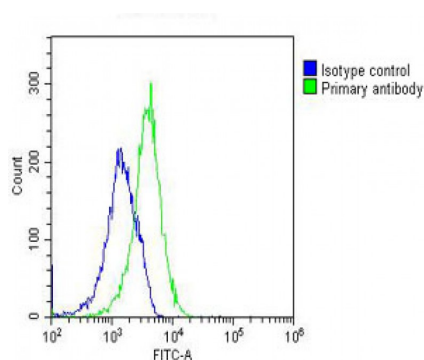
Chen Y.-M.A.,et al.Genomics 66:43-47(2000).

Mungall A.J.,et al.Nature 425:805-811(2003).

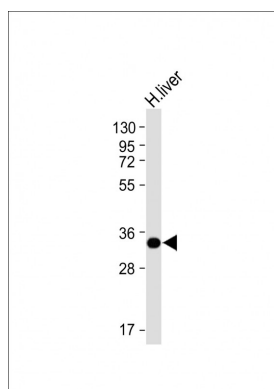
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.

Ogawa H.,et al.Comp. Biochem. Physiol. 106B:601-611(1993).

## Images



Overlay histogram showing U-2 OS cells stained with AM8617b(green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then incubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AM8617b, 1:25 dilution) for 60 min at 37°C. The secondary antibody used was Goat-Anti-Mouse IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(NH174309) at 1/200 dilution for 40 min at 37°C. Isotype control antibody (blue line) was mouse IgG2a (1µg/1x10<sup>6</sup> cells) used under the same conditions. Acquisition of >10, 000 events was performed.



Anti-GNMT Antibody (C-term) at 1:4000 dilution + Human liver lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 33 kDa  
Blocking/Dilution buffer: 5% NFDm/TBST.

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