

**GNMT Antibody (C-term)**  
**Purified Mouse Monoclonal Antibody (Mab)**  
**Catalog # AM8617b****Specification**

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**GNMT Antibody (C-term) - Product Information**

Application	<b>WB, FC,E</b>
Primary Accession	<a href="#">O14749</a>
Reactivity	<b>Human</b>
Host	<b>Mouse</b>
Clonality	<b>monoclonal</b>
Isotype	<b>IgG2a,k</b>
Calculated MW	<b>32742</b>

**GNMT Antibody (C-term) - Additional Information****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

**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.

**GNMT Antibody (C-term) - Protein Information****Name** GNMT ([HGNC:4415](#))**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}.

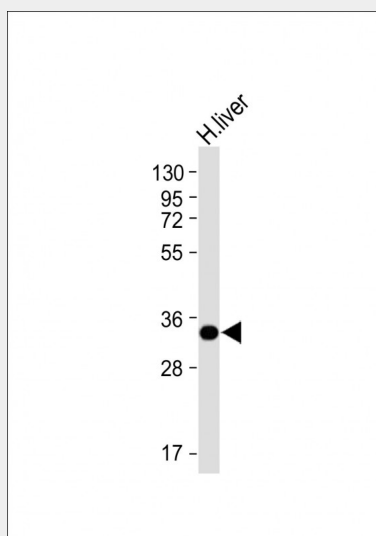
**Tissue Location**

Expressed only in liver, pancreas, and prostate.

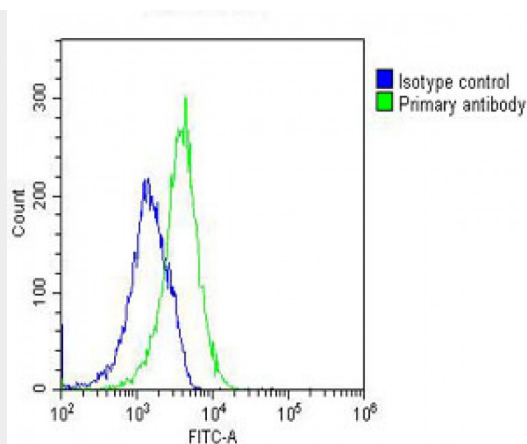
**GNMT Antibody (C-term) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**GNMT Antibody (C-term) - Images**

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



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 (1 µg/1x10<sup>6</sup> cells) used under the same conditions. Acquisition of >10,000 events was performed.

#### **GNMT Antibody (C-term) - 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.

#### **GNMT Antibody (C-term) - 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).