

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

Specification

GNMT Antibody (C-term) - Product Information

Application	WB, FC,E
Primary Accession	O14749
Reactivity	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG2a,k
Calculated MW	32742

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}.

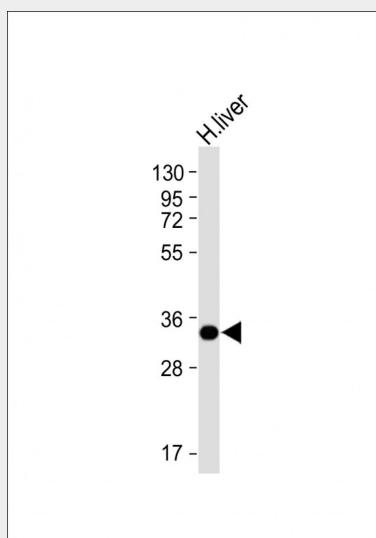
Tissue Location

Expressed only in liver, pancreas, and prostate.

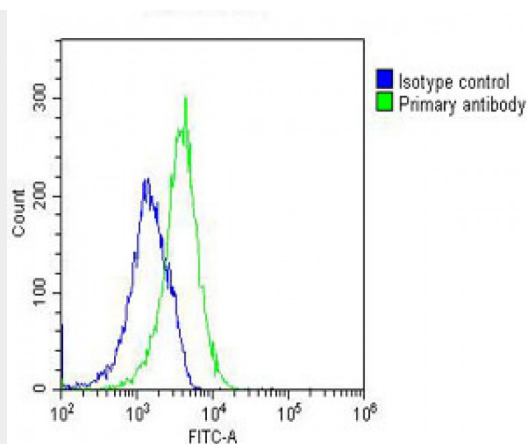
GNMT Antibody (C-term) - Protocols

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 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% 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/1x10⁶ 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).