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

Specification

GNMT Antibody (C-term) - Product Information

Application	**WB, FC,E**
Primary Accession	Q14749
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
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.

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}.

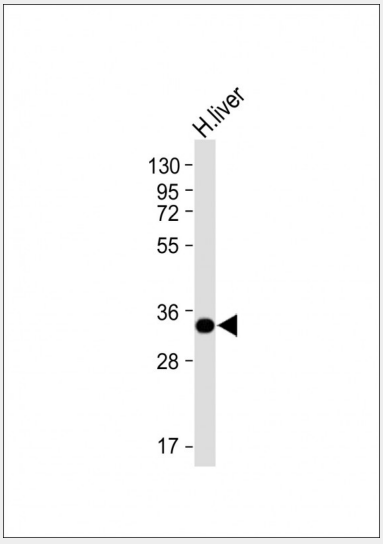
Tissue Location
Expressed only in liver, pancreas, and prostate.

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 Cytomety
- 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% NFDM/TBST.

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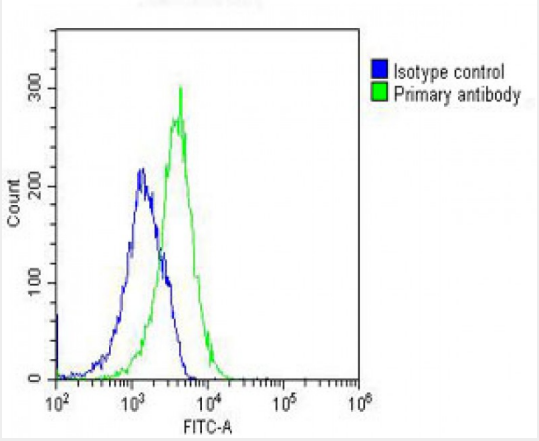

Overlay histogram showing U-2 OS cells stained with AM8617b(green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then icubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the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