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

GNMT Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18057c

Specification

GNMT Antibody (Center) - Product Information

Application	**WB,E**
Primary Accession	Q14749
Other Accession	Q29513, Q29555, NP_061833.1
Reactivity	**Human**
Predicted	**Pig, Rabbit**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**32742**
Antigen Region	**78-106**

GNMT Antibody (Center) - Additional Information

Gene ID 27232

Other Names
Glycine N-methyltransferase, GNMT

Target/Specificity
This GNMT antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 78-106 amino acids from the Central region of human GNMT.

Dilution
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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 (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

GNMT Antibody (Center) - Protein Information

Name GNMT (HGNC:4415)

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

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}.

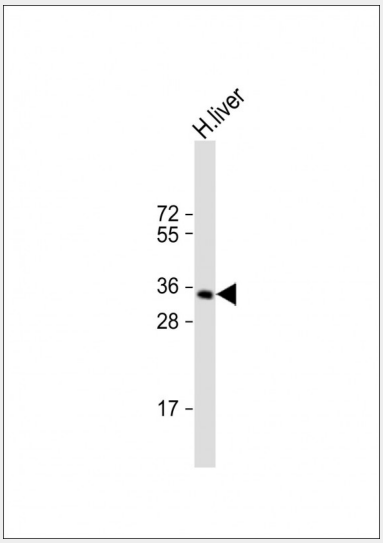
Tissue Location
Expressed only in liver, pancreas, and prostate.

GNMT Antibody (Center) - 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 (Center) - Images



Anti-GNMT Antibody (Center) at 1:1000 dilution + human liver lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 33 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

GNMT Antibody (Center) - Background

The protein encoded by this gene is an enzyme that catalyzes the conversion of S-adenosyl-L-methionine (along with glycine) to S-adenosyl-L-homocysteine and sarcosine. The encoded protein is found in the cytoplasm and acts as a homotetramer.

Defects in this gene are a cause of GNMT deficiency (hypermethioninemia).

GNMT Antibody (Center) - References

Jugessur, A., et al. PLoS ONE 5 (7), E11493 (2010) :
Lee, C.M., et al. Gene 443 (1-2), 151-157 (2009) :
Boyles, A.L., et al. Genet. Epidemiol. 33(3):247-255(2009)
Yen, C.H., et al. Toxicol. Appl. Pharmacol. 235(3):296-304(2009)
Franke, B., et al. Birth Defects Res. Part A Clin. Mol. Teratol. 85(3):216-226(2009)