

## DESCRIPTION

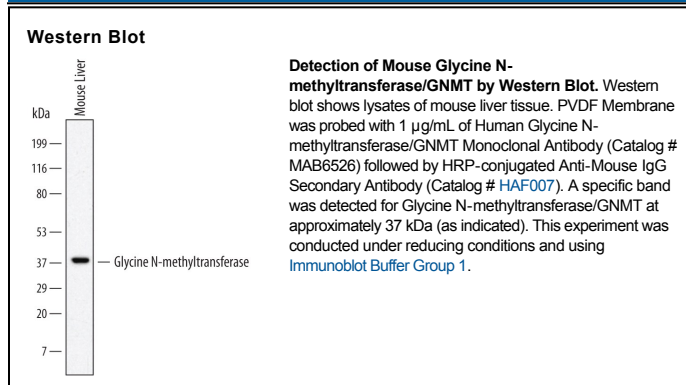
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human Glycine N-methyltransferase/GNMT in direct ELISAs.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 691305
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human Glycine N-methyltransferase/GNMT Met1-Asp295 Accession # Q14749
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	1 µg/mL	See Below
<b>Immunoprecipitation</b>	25 µg/mL	Cell lysates spiked with recombinant human Glycine N-methyltransferase/GNMT, <a href="#">see our available Western blot detection antibodies</a>

## DATA



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Sterile PBS to a final concentration of 0.5 mg/mL.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## BACKGROUND

GNMT (glycine N-methyltransferase) is a cytoplasmic homotetramer of 33 kDa units that converts S-adenosylmethionine to N-methylglycine (sarcosine), also producing S-adenosylhomocysteine. It is abundant in liver, but has also been found in the pancreas and prostate, and is downregulated in hepatocellular carcinoma. GNMT adjusts liver methyl group synthesis for dietary methionine, influencing DNA methylation. The 5-methyltetrahydrofolate form of folic acid binds and inhibits GNMT activity. The 295 amino acid (aa) human GNMT shares 92% aa identity with mouse and rat GNMT.