

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Glycine N-methyltransferase/GNMT in direct ELISAs.
Source	Monoclonal Mouse IgG ₁ Clone # 691305
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Glycine N-methyltransferase/GNMT Met1-Asp295 Accession # Q14749
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunoprecipitation	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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.

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