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Product datasheet for CF501276

GNMT Mouse Monoclonal Antibody [Clone ID: OTI8A3]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI8A3
Applications:	FC, WB
Recommended Dilution:	WB: 1:200 - 1:1000, Flow 1:100
Reactivity:	Human
Host:	Mouse
Isotype:	IgG3
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human GNMT (NP_061833) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	32.6 kDa
Gene Name:	glycine N-methyltransferase
Database Link:	NP_061833 Entrez Gene 27232 Human Q14749

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).

Synonyms: glycine N-methyltransferase; OTTHUMP00000016412

Protein Families: Druggable Genome

Protein Pathways: Glycine, serine and threonine metabolism

Product images:

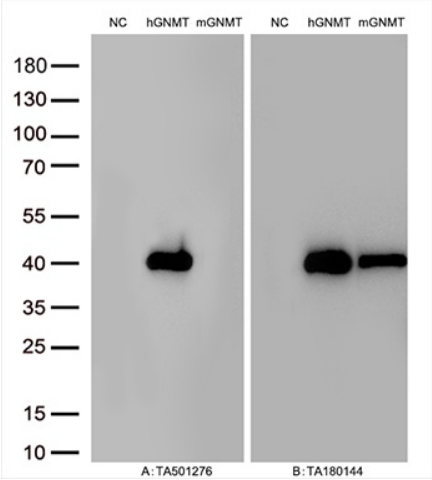
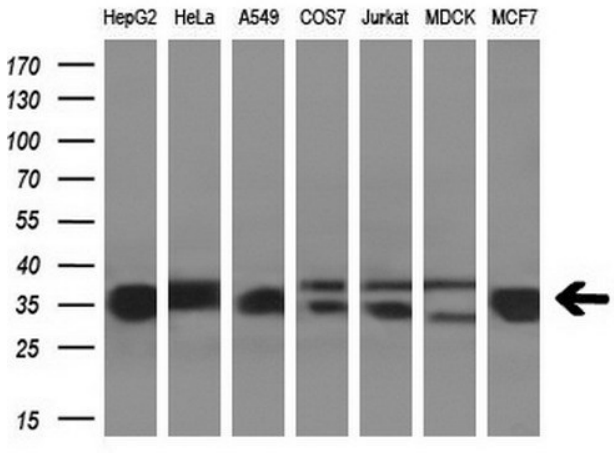
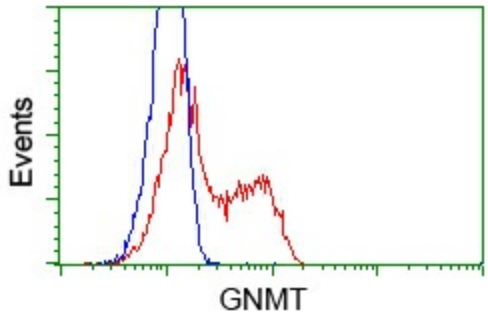


Figure A, Western blot analysis of overexpressed lysates(15ug per lane) from HEK293T cells transfected with empty plasmid ([PS100001], NC) , human GNMT plasmid ([RC207497], hGNMT), mouse GNMT plasmid ([MR204030], mGNMT) using anti-GNMT antibody [TA501276] (1:500). Figure B, Western blot analysis of the same samples as figure A with anti-DDK antibody ([TA180144], 1:1000)



Western blot analysis of extracts (10ug) from 7 different cell lines by using anti-GNMT monoclonal antibody (1:200).



HEK293T cells transfected with either pCMV6-ENTRY GNMT ([RC207497]) (Red) or empty vector control plasmid (Blue) were immunostained with anti-GNMT mouse monoclonal ([TA501276]), and then analyzed by flow cytometry.