## antibodies .- online.com









Go to Product page

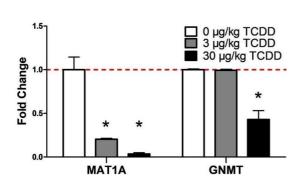
$\sim$							
0	V	е	r١	/1	е	V	1

Quantity:	100 μL		
Target:	GNMT		
Binding Specificity:	AA 1-295		
Reactivity:	Human		
Host:	Rabbit		
Clonality:	Polyclonal		
Conjugate:	This GNMT antibody is un-conjugated		
Application:	Western Blotting (WB)		
Product Details			
Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-295 of		
mmunogen.	human GNMT (NP_061833.1).		
Sequence:			
	human GNMT (NP_061833.1).  MVDSVYRTRS LGVAAEGLPD QYADGEAARV WQLYIGDTRS RTAEYKAWLL GLLRQHGCQR  VLDVACGTGV DSIMLVEEGF SVTSVDASDK MLKYALKERW NRRHEPAFDK WVIEEANWMT  LDKDVPQSAE GGFDAVICLG NSFAHLPDCK GDQSEHRLAL KNIASMVRAG GLLVIDHRNY  DHILSTGCAP PGKNIYYKSD LTKDVTTSVL IVNNKAHMVT LDYTVQVPGA GQDGSPGLSK		
Sequence:	human GNMT (NP_061833.1).  MVDSVYRTRS LGVAAEGLPD QYADGEAARV WQLYIGDTRS RTAEYKAWLL GLLRQHGCQR  VLDVACGTGV DSIMLVEEGF SVTSVDASDK MLKYALKERW NRRHEPAFDK WVIEEANWMT  LDKDVPQSAE GGFDAVICLG NSFAHLPDCK GDQSEHRLAL KNIASMVRAG GLLVIDHRNY  DHILSTGCAP PGKNIYYKSD LTKDVTTSVL IVNNKAHMVT LDYTVQVPGA GQDGSPGLSK  FRLSYYPHCL ASFTELLQAA FGGKCQHSVL GDFKPYKPGQ TYIPCYFIHV LKRTD		
Sequence:  Isotype:	human GNMT (NP_061833.1).  MVDSVYRTRS LGVAAEGLPD QYADGEAARV WQLYIGDTRS RTAEYKAWLL GLLRQHGCQR  VLDVACGTGV DSIMLVEEGF SVTSVDASDK MLKYALKERW NRRHEPAFDK WVIEEANWMT  LDKDVPQSAE GGFDAVICLG NSFAHLPDCK GDQSEHRLAL KNIASMVRAG GLLVIDHRNY  DHILSTGCAP PGKNIYYKSD LTKDVTTSVL IVNNKAHMVT LDYTVQVPGA GQDGSPGLSK  FRLSYYPHCL ASFTELLQAA FGGKCQHSVL GDFKPYKPGQ TYIPCYFIHV LKRTD		

## **Target Details**

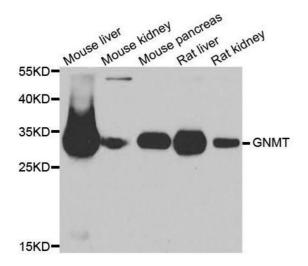
GNMT			
GNMT (GNMT Products)			
The protein encoded by this gene is an enzyme that catalyzes the conversion of S-adenosyl-L-			
methionine (along with glycine) to S-adenosyl-L-homocysteine and sarcosine. This protein is			
found in the cytoplasm and acts as a homotetramer. Defects in this gene are a cause of GNMT			
deficiency (hypermethioninemia). Alternative splicing results in multiple transcript variants.			
Naturally occurring readthrough transcription occurs between the upstream CNPY3 (canopy			
FGF signaling regulator 3) gene and this gene and is represented with			
GenelD:107080644.,GNMT,HEL-S-182mP,Epigenetics & Nuclear Signaling,Cancer,Signal			
Transduction,Endocrine & Metabolism,Amino acid metabolism,GNMT			
32 kDa			
27232			
Q14749			
Cellular Glucan Metabolic Process, Regulation of Carbohydrate Metabolic Process			
WB,1:500 - 1:2000			
HIGH QUALITY			
For Research Use only			
Liquid			
PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.			
Sodium azide			
This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which			
should be handled by trained staff only.			
-20 °C			
Store at -20°C. Avoid freeze / thaw cycles.			

d



## **Simple Western**

Image 1. TCDD-elicited repression of SAM biosynthesis and methyltransferase gene expression. (a) Schematic pathway depicting enzymes (open rectangle) and metabolites (open circle) associated with SAM biosynthesis and utilization by methyltransferases (MT). (b) Hepatic levels of SAM and SAH were determined by LC-MS/MS (mean±s.e.m., n=5-6) at 8 and 28 days of repeated TCDD exposure and (c) hepatic gene expression of genes involved in the biosynthesis, regulation, and utilization of SAM and SAH were assessed at 8 and 28 days by RT-qPCR or RNA-seq, respectively (n=8). (d) Fold change for hepatic MAT1A and GNMT protein levels after 28 days measured by the WES capillary electrophoresis system (mean±s.e.m., n=4). (e) Hepatic gene expression associated with SAM metabolism was determined by RNA-seq for a time-course after a bolus dose of 30 µg/kg TCDD (n=5). For the heatmaps, the median effective dose (ED50) and benchmark dose lower limit (BMDL) and relative transcript count (rel. count, ) are denoted. The red/blue color scale represents the log2(fold change) for differential gene expression. Orange represents the presence of putative dioxin response elements (pDREs). AhR enrichment peaks (FDR≤0.05) are denoted by light green. pDREs found within AHR ChIP-seq enrichment peaks are denoted by garnet. Asterisks (\*) denote p<0.05 determined by one-way ANOVA with a Dunnett's post-hoc test. Pound signs (#) denote posterior probabilities P1(t)≥0.80 compared to vehicle. Official gene name and symbol, and metabolite abbreviations: Comt catechol-Omethyltransferase, guanidinoacetate N-Gamt methyltransferase, Gnmt glycine N-methyltransferase, Inmt indolethylamine N-transferase, Mat1a, Mat2a Sadenosylmethionine synthase isoform 1a or 2a, Nnmt nicotinamide N-methyltransferase, Pemt phosphatidylethanolamine N-methyltransferase, Sardh



sarcosine dehydrogenase, SAM S-adenosylmethionine, SAH S-adenosylhomocysteine. - figure provided by CiteAb. Source: PMID32908189

## **Western Blotting**

**Image 2.** Western blot analysis of extracts of various cell lines, using GNMT antibody.