

## Product datasheet for **TA319476**

### DNMT3L Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	ELISA: 1:1000 - 1:3000, WB: 1:500, IP: 1:100
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to aa 152-164 of Human DNMT3L (DNA (cytosine-5-)-methyltransferase 3-like). DNMT3L is a nuclear protein with similarity to DNA methyltransferases.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	DNA (cytosine-5-)-methyltransferase 3-like
Database Link:	<a href="#">NP_037501</a> <a href="#">Entrez Gene 29947 Human</a> <a href="#">Q9UJW3</a>
Synonyms:	MGC1090



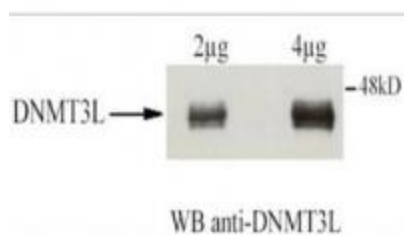
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**Note:** DNMT 3L is a nuclear protein that has similarity to DNA methyltransferases, involved in de novo methylation of CpG islands. CpG methylation is an epigenetic modification that is important for embryonic development, imprinting, and X-chromosome inactivation. Studies in mice have demonstrated that DNA methylation is required for mammalian development. This gene encodes a nuclear protein with similarity to DNA methyltransferases. This protein is not thought to function as a DNA methyltransferase as it does not contain the amino acid residues necessary for methyltransferase activity. However, this protein does stimulate de novo methylation by DNA cytosine methyltransferase 3 alpha and it is thought to be required for the establishment of maternal genomic imprints. This protein also mediates transcriptional repression through interaction with histone deacetylase 1.

**Protein Families:** Druggable Genome, Transcription Factors

**Protein Pathways:** Cysteine and methionine metabolism, Metabolic pathways

### Product images:



Rabbit anti-DNMT3L was used at a 1:1,500 dilution to detect human DNMT3L by WB after IP using the same antibody. Transfection of U2OS cells (10cm dish) was accomplished using 3 µg of GAL4-DNMT3L. Protein extraction using IPH at 150mM. For WB the antibody was used at 0.4µg/ml in TBS milk 2%, BSA 0.5%. Detection occurred using ECL.