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anti-DNMT3L antibody (AA 152-164)





Overview

Background:

Quantity:	100 μg
Target:	DNMT3L (TRDMT1)
Binding Specificity:	AA 152-164
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This DNMT3L antibody is un-conjugated
Application:	ELISA
Product Details	

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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.
Isotype:	IgG
Characteristics:	Concentration Definition: by UV absorbance at 280 nm
Target Details	
Target:	DNMT3L (TRDMT1)
Alternative Name:	DNMT3L (TRDMT1 Products)

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 methyltrans-ferases. 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.

Synonyms: DNA (cytosine-5)-methyltransferase 3-like DNMT3L

NCBI Accession: NP_787063

UniProt: Q9UJW3

Application Details

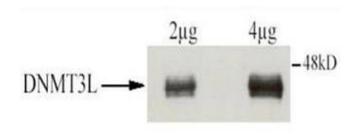
Application Notes: This affinity purified antibody has been tested for use in ELISA against the immunizing peptide.

Reactivity in other immunoassays is unknown.

Restrictions: For Research Use only

Handling

Format:	Liquid
Concentration:	1.11 mg/mL
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C



WB anti-DNMT3L

Western Blotting

Image 1. Affinity Purified Rabbit anti-DNMT3L was used at a 1:1,500 dilution to detect human DNMT3L by western blot after immunoprecipitation 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 IP and WB conditions see Fuks et al. (2000). For western blotting the antibody was used at 0.4µg/ml in TBS milk 2%, BSA 0.5%. Detection occurred using ECL. Note: this antibody works for western blotting only following immunoprecipitation. We have not had good success using the antibody directly for western blotting. The expected molecular weight of human DNMT3L is 43.6 kDa. Background Information: 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 methyltrans-ferases. 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.

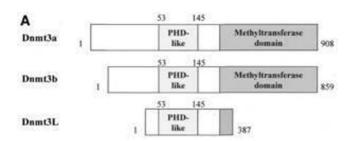
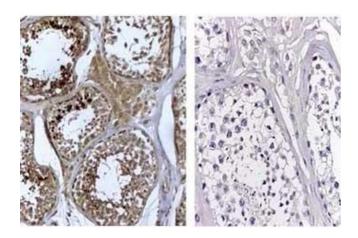


Image 2.



Immunohistochemistry

Image 3. Immunohistochemistry Rabbit Anti-Human DNMT3L Antibody 1:500