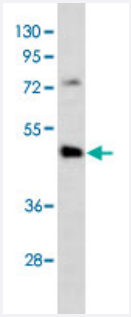
DNMT3L polyclonal antibody

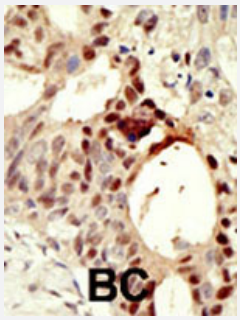
Catalog # PAB2218 Size 400 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of HL-60 cell lysate with DNMT3L polyclonal antibody (Cat # PAB2218).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human cancer tissue reacted with the DNMT3L polyclonal antibody (Cat # PAB2218) , which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry ; clinical relevance has not been evaluated. BC = breast carcinoma.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of DNMT3L.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to C-terminus of human DNMT3L.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein G purification

Recommend Usage	Western Blot (1:1000) Immunohistochemistry (1:50-100) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

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Gene Info — DNMT3L

Entrez GeneID	29947
Protein Accession#	Q9UJW3
Gene Name	DNMT3L
Gene Alias	MGC1090
Gene Description	DNA (cytosine-5-)-methyltransferase 3-like
Omim ID	606588
Gene Ontology	Hyperlink

Gene Summary	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. Alternative splicing results in two transcript variants. An additional splice variant has been described but its biological validity has not been determined. [provided by RefSeq
Other Designations	cytosine-5-methyltransferase 3-like protein|human cytosine-5-methyltransferase 3-like protein

Publication Reference

- The DNA methyltransferase-like protein DNMT3L stimulates de novo methylation by Dnmt3a.

  Chedin F, Lieber MR, Hsieh CL.

  PNAS 2002 Dec; 99(26):16916.

Pathway

- Cysteine and methionine metabolism
- Metabolic pathways

Disease

- Genetic Predisposition to Disease
- Neoplasms
- Ovarian cancer
- Ovarian Neoplasms