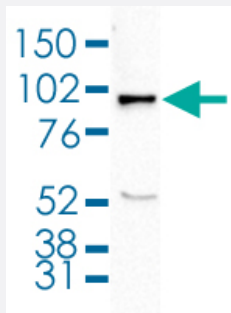


DNMT3B polyclonal antibody

Catalog # PAB31288

Size 50 ug

Applications

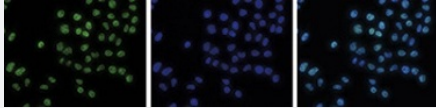


Western Blot (Cell lysate)

Western Blot (Cell lysate) analysis of 25 ug whole cell extracts of HeLa cells.

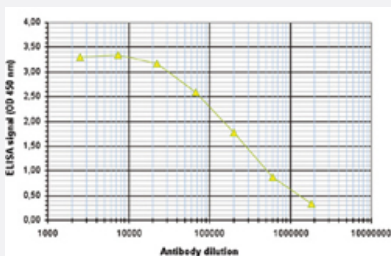
Immunofluorescence

Immunofluorescent staining of Hela cell line with antibody followed by an anti-rabbit antibody conjugated to Alexa488 (left). The middle panel shows staining of the nuclei with DAPI. A merge of the two stainings (right).



Enzyme-linked Immunoabsorbent Assay

ELISA is a quantitative method used to determine the titer of the antibody using a serial dilution of antibody against DNMT3B. The plates were coated with the peptides used for immunization of the rabbit. By plotting the absorbance against the antibody dilution, the titer of the antibody was estimated to be 1:220000.



Specification

Product Description

Rabbit polyclonal antibody raised against synthetic peptide of DNMT3B.

Immunogen

A synthetic peptide (conjugated with KLH) corresponding to different parts of human DNMT3B.

Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Affinity purification
Recommend Usage	ELISA (1:10000) Western Blot (1:1000) Immunofluorescence (1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.05% sodium azide, 0.05% proclin 300).
Storage Instruction	Store at -20°C. For long term storage store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western Blot (Cell lysate) analysis of 25 ug whole cell extracts of HeLa cells.

- Immunofluorescence

Immunofluorescent staining of HeLa cell line with antibody followed by an anti-rabbit antibody conjugated to Alexa488 (left). The middle panel shows staining of the nuclei with DAPI. A merge of the two stainings (right).

- Enzyme-linked Immunoabsorbent Assay

ELISA is a quantitative method used to determine the titer of the antibody using a serial dilution of antibody against DNMT3B. The plates were coated with the peptides used for immunization of the rabbit. By plotting the absorbance against the antibody dilution, the titer of the antibody was estimated to be 1:220000.

Gene Info — DNMT3B

Entrez GeneID	1789
Protein Accession#	Q9UBC3
Gene Name	DNMT3B
Gene Alias	ICF, M.HsaIIIB

Gene Description	DNA (cytosine-5-)-methyltransferase 3 beta
Omim ID	242860 602900
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 DNA methyltransferase which is thought to function in de novo methylation, rather than maintenance methylation. The protein localizes primarily to the nucleus and its expression is developmentally regulated. Mutations in this gene cause the immunodeficiency-centromeric instability-facial anomalies (ICF) syndrome. Six alternatively spliced transcript variants have been described. The full length sequences of variants 4 and 5 have not been determined. [provided by RefSeq]
Other Designations	DNA MTase HsaIIIB DNA cytosine-5 methyltransferase 3 beta DNA methyltransferase HsaIIIB

Publication Reference

- [ICF-specific DNMT3B dysfunction interferes with intragenic regulation of mRNA transcription and alternative splicing.](#)

Gatto S, Gagliardi M, Franzese M, Leppert S, Papa M, Cammisa M, Grillo G, Velasco G, Francastel C, Toubiana S, D'Esposito M, Angelini C, Matarazzo MR.

Nucleic Acids Research 2017 Jun; 45(10):5739.

Application: ChIP, IP, RIP, WB-Tr, Human, ICF1 cells

Pathway

- [Cysteine and methionine metabolism](#)
- [Metabolic pathways](#)

Disease

- [Acute Disease](#)
- [Adenocarcinoma](#)
- [Adenomatous Polyps](#)
- [Alzheimer disease](#)
- [Arsenic Poisoning](#)

- [Arthritis](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Chronic Disease](#)
- [Colon cancer](#)
- [Colonic Neoplasms](#)
- [Colonic Polyps](#)
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- [Cues](#)
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- [Stomach Neoplasms](#)