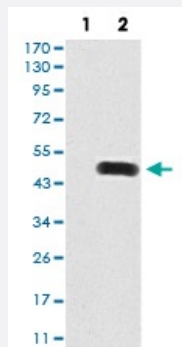


DNMT3B monoclonal antibody, clone 4D1A2E5

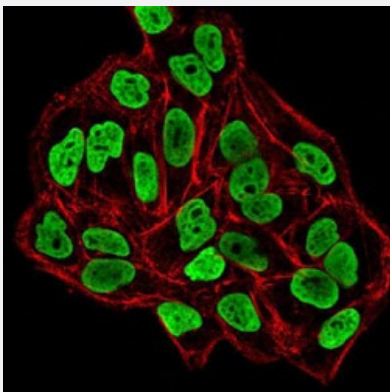
Catalog # MAB17124 Size 100 ug

Applications



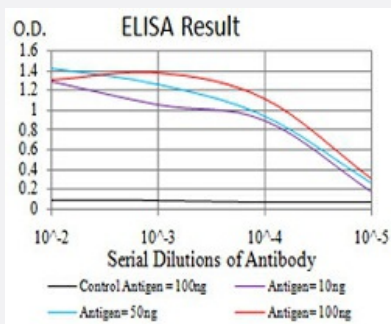
Western Blot (Transfected lysate)

Western Blot analysis of (1) HEK293 cells, (2) DNMT3B-hlgGfc transfected HEK293 cell lysate.



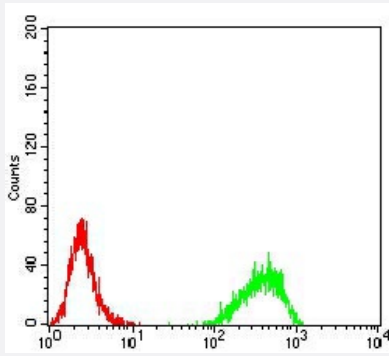
Immunocytochemistry

Immunocytochemical staining of HeLa cells with DNMT3B monoclonal antibody (green). DRAQ5 fluorescent DNA dye (blue). Actin filaments have been labeled with Alexa Fluor-555 phalloidin (red).



Enzyme-linked Immunoabsorbent Assay

ELISA analysis of DNMT3B monoclonal antibody, clone 4D1A2E5.



Flow Cytometry

Flow cytometric analysis of K562 cells with DNMT3B monoclonal antibody (green) and negative control (red).

Specification

Product Description	Mouse monoclonal antibody raised against recombinant human DNMT3B.
Immunogen	Recombinant protein corresponding to amino acid 1-150 of human DNMT3B from <i>E. coli</i> .
Host	Mouse
Theoretical MW (kDa)	95.8kDa
Reactivity	Human
Form	Liquid
Isotype	IgG2a
Recommend Usage	ELISA (1:10000) Western Blot (1:500-1:2000) Immunohistochemistry Immunocytochemistry (1:200-1:1000) Flow Cytometry (1:200-1:400) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.05% 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 should be handled by trained staff only.

Applications

- Western Blot (Transfected lysate)

Western Blot analysis of (1) HEK293 cells, (2) DNMT3B-hlgGfC transfected HEK293 cell lysate.

- Immunocytochemistry

Immunocytochemical staining of HeLa cells with DNMT3B monoclonal antibody (green). DRAQ5 fluorescent DNA dye (blue). Actin filaments have been labeled with Alexa Fluor- 555 phalloidin (red).

- Enzyme-linked Immunoabsorbent Assay

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Flow cytometric analysis of K562 cells with DNMT3B monoclonal antibody (green) and negative control (red).

Gene Info — DNMT3B

Entrez GeneID [1789](#)

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

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](#)
- [Colorectal Neoplasms](#)
- [Cues](#)
- [Disease Progression](#)
- [DNA Damage](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Head and Neck Neoplasms](#)
- [Heart Neoplasms](#)
- [Infertility](#)
- [Leukemia](#)
- [Liver Neoplasms](#)

- [Lung Neoplasms](#)
- [Microsatellite Instability](#)
- [Neoplasm Invasiveness](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Prostate cancer](#)
- [Prostatic Hyperplasia](#)
- [Prostatic Neoplasms](#)
- [Pulmonary Disease](#)
- [Purpura](#)
- [Satiety Response](#)
- [Stomach Neoplasms](#)