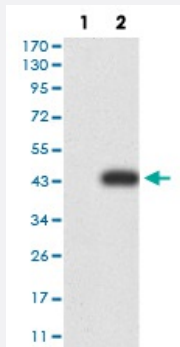


DNMT3A monoclonal antibody, clone 4G5F11

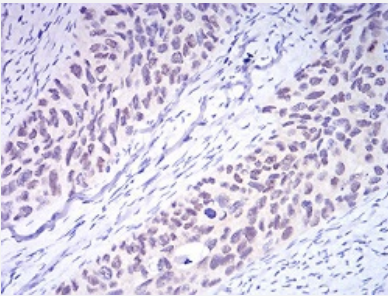
Catalog # MAB17222 Size 100 ug

Applications



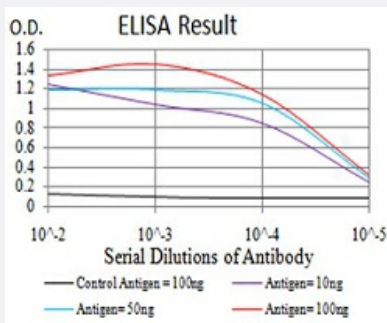
Western Blot (Transfected lysate)

Western Blot analysis of (1) HEK293 cells, (2) DNMT3A-hlgGfc transfected HEK293 cell lysate.



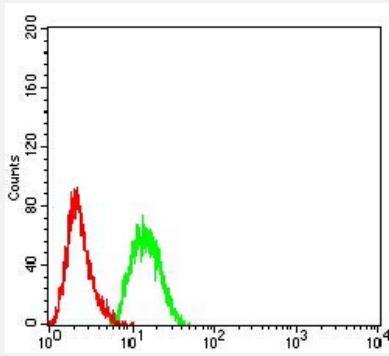
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of paraffin-embedded cervical cancer tissues with DNMT3A monoclonal antibody.



Enzyme-linked Immunoabsorbent Assay

ELISA analysis of DNMT3A monoclonal antibody, clone 4G5F11.



Flow Cytometry

Flow cytometric analysis of HeLa cells with DNMT3A monoclonal antibody (green) and negative control (red).

Specification

Product Description	Mouse monoclonal antibody raised against recombinant human DNMT3A.
Immunogen	Recombinant protein corresponding to amino acid 46-180 of human DNMT3A from <i>E. coli</i> .
Host	Mouse
Theoretical MW (kDa)	102kDa
Reactivity	Human
Form	Liquid
Isotype	IgG2a
Recommend Usage	ELISA (1:10000) Western Blot (1:500-1:2000) Immunohistochemistry (1:200-1:1000) Immunocytochemistry 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) DNMT3A-hlgGfc transfected HEK293 cell lysate.

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

Immunohistochemical staining of paraffin-embedded cervical cancer tissues with DNMT3A monoclonal antibody.

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Flow cytometric analysis of HeLa cells with DNMT3A monoclonal antibody (green) and negative control (red).

Gene Info — DNMT3A

Entrez GeneID [1788](#)

Gene Name DNMT3A

Gene Alias DNMT3A2, M.HsaIIIA

Gene Description DNA (cytosine-5-)-methyltransferase 3 alpha

Omim ID [602769](#)

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 that is thought to function in de novo methylation, rather than maintenance methylation. The protein localizes to the cytoplasm and nucleus and its expression is developmentally regulated. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq]

Other Designations DNA MTase HsaIIIA|DNA cytosine methyltransferase 3 alpha|DNA cytosine methyltransferase 3A2|DNA methyltransferase HsaIIIA|OTTHUMP00000120005|OTTHUMP00000120006

Pathway

- [Cysteine and methionine metabolism](#)

- [Metabolic pathways](#)

Disease

- [Alzheimer disease](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Colorectal Neoplasms](#)
- [Crohn Disease](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Leukemia](#)
- [Neoplasms](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Spinal Dysraphism](#)
- [Stomach Neoplasms](#)