Product Name: DNMT3A Mouse Monoclonal Antibody
Catalog #: AMM81678

For research use only.

Summary

Description	Mouse monoclonal Antibody
Host	Mouse
Application	IHC,ELISA,FC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG2a
Clonality	Monoclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Purified antibody in PBS with 0.05% sodium azide
Purification	Affinity Purification

Application

Dilution Ratio	IHC 1:200-1:1000,ELISA 1:5000-1:20000,FC 1:200-1:400
Molecular Weight	102kDa

Antigen Information

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Gene Name	DNMT3A
Alternative Names	TBRS; DNMT3A2; M.HsaIIIA
Gene ID	1788.0
SwissProt ID	Q9Y6K1
Immunogen	Purified recombinant fragment of human DNMT3A (AA: 46-180) expressed in E. Coli.

Background

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.
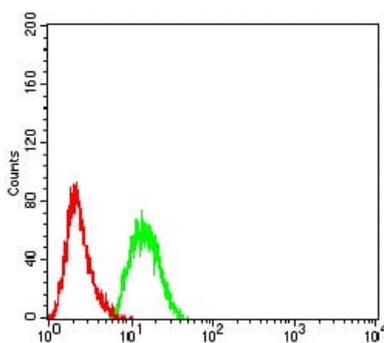
The protein localizes to the cytoplasm and nucleus and its expression is developmentally regulated. Alternative splicing results in multiple transcript variants encoding different isoforms.
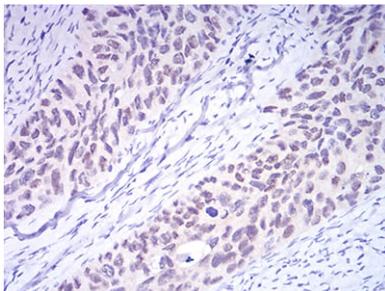
Research Area

Image Data
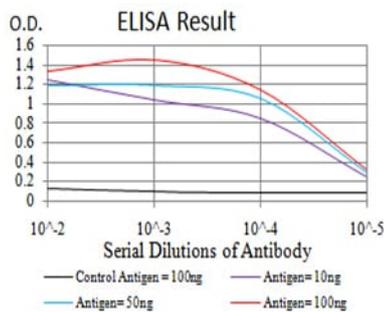
Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

Flow cytometric analysis of Hela cells using DNMT3A mouse mAb (green) and negative control (red).

Immunohistochemical analysis of paraffin-embedded human cervical cancer tissues using DNMT3A mouse mAb with DAB staining.