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DNMT3A Polyclonal Antibody

(Catalog # A-1003)

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.

Description
DNMT3A Polyclonal Antibody. Unconjugated. Raised in: Rabbit.

Formulation
Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.

Specificity
Mouse, Rat, Human

Isotype
IgG

Uniprot ID
Q9Y6K1

Purification
Affinity Purified

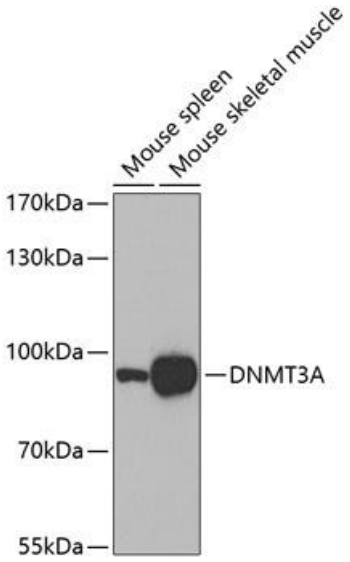
Immunogen
A synthetic peptide corresponding to a sequence within amino acids 500-700 of human DNMT3A (NP_072046.2)

Storage
Shipped at 4°C. Store at -20°C. Avoid multiple freeze/thaw cycles.

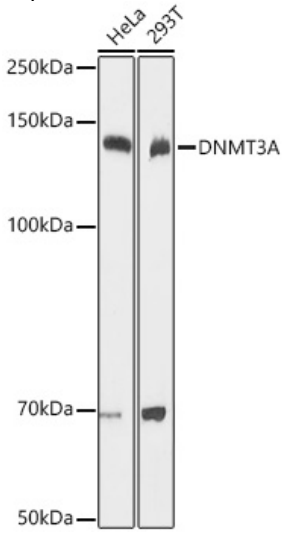
Alternative Names
DNA (cytosine 5) methyltransferase 3 alpha antibody, DNA (cytosine-5)-methyltransferase 3A antibody, DNA cytosine methyltransferase 3A2 antibody, DNA methyltransferase 3a antibody, DNA methyltransferase HsaIIIA antibody, DNA MTase HsaI antibody, DNA MTase HsaIIIA antibody, DNM3A_HUMAN antibody, DNMT 3a antibody, DNMT antibody, DNMT3A2 antibody, M HsaIIIA antibody, MCMT antibody, Methyl CpG binding domain protein 3a antibody, OTTHUMP00000201149 antibody, DNMT3A2, M.HsaIIIA

Application
ELISA, WB, IF/ICC; Recommended dilution, WB 1:500 - 1:2000, IF/ICC 1:50 - 1:20, ELISA - Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

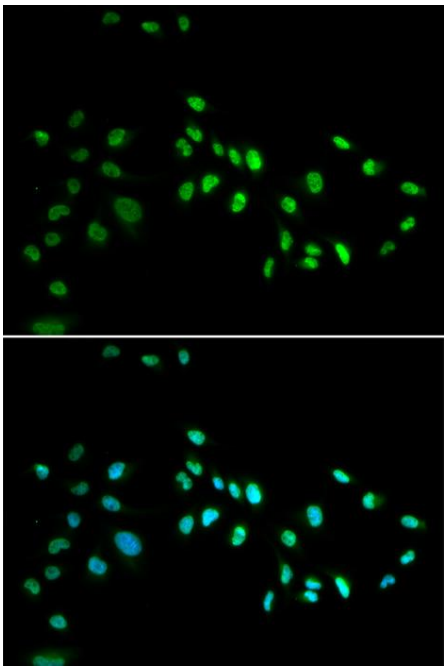
This product is for research purposes only. Not intended for use in diagnostic procedures.



Western blot analysis of various lysates using DNMT3A Polyclonal Antibody.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Exposure time: 90s.



Western blot analysis of various lysates using DNMT3A Polyclonal Antibody at 1:1000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) at 1:10000 dilution.
Lysates / proteins: 25 µg per lane.
Blocking buffer: 3 % nonfat dry milk in TBST.
Exposure time: 90s.



Immunofluorescence analysis of A549 cells using DNMT3A Polyclonal Antibody. Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) at 1:500 dilution.