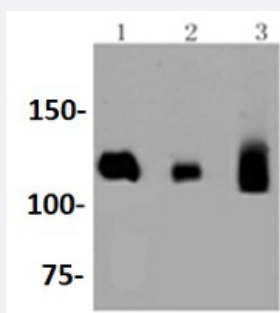


RecomAb™

DNMT3A recombinant monoclonal antibody

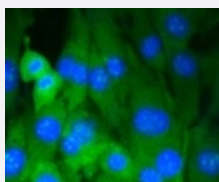
Catalog # RAB02755 Size 100 uL

Applications



Western Blot

Western blot analysis of Lane1:Hela whole cell lysate Lane2:The brain tissue lysate of Human Lane3:The heart tissue lysate of Human with DNMT3A recombinant monoclonal antibody (Cat # RAB02755) at 1:1000 dilution.



Immunocytochemistry

Immunocytochemical staining of NIH/3T3 cells using DNMT3A recombinant monoclonal antibody (Cat # RAB02755)(green). The nuclear counter stain is DAPI (blue).Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton *100/PBS.

Specification

| | |
|----------------------|---------------------------------------------------------------------------------------------------|
| Product Description | Rabbit recombinant monoclonal antibody raised against DNMT3A. |
| Antibody Species | Rabbit |
| Immunogen | Original antibody is raised against recombinant DNMT3A. |
| Theoretical MW (kDa) | 102 |
| Reactivity | Human, Rat |
| Specificity | This antibody detects endogenous levels of DNMT3A and does not cross-react with related proteins. |

| | |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Form | Liquid |
| Purification | Protein A purification |
| Isotype | IgG |
| Recommend Usage | Immunocytochemistry (1:50-1:200) Immunofluorescence (1:50-1:200) Western Blot (1:1000-1:5000) The optimal working dilution should be determined by the end user. |
| Storage Buffer | In PBS, pH7.2 (50% glycerol and 0.02% sodium azide) |
| Storage Instruction | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles. |
| Note | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |

Applications

- Western Blot

Western blot analysis of Lane1:Hela whole cell lysate Lane2:The brain tissue lysate of Human Lane3:The heart tissue lysate of Human with DNMT3A recombinant monoclonal antibody (Cat # RAB02755) at 1:1000 dilution.

- Immunocytochemistry

Immunocytochemical staining of NIH/3T3 cells using DNMT3A recombinant monoclonal antibody (Cat # RAB02755)(green). The nuclear counter stain is DAPI (blue).Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton *100/PBS.

- Immunofluorescence

Gene Info — DNMT3A

| | |
|--------------------|---------------------------------------------|
| Entrez GeneID | 1788 |
| Protein Accession# | Q9Y6K1 |
| 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 HsalllA|DNA cytosine methyltransferase 3 alpha|DNA cytosine methyltransferase 3A2|DNA methyltransferase HsalllA|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](#)