

For Research Use Only

# DNMT3B Polyclonal antibody

Catalog Number: 26971-1-AP

Featured Product

26 Publications



## Basic Information

**Catalog Number:**

26971-1-AP

**Size:**

150ul, Concentration: 650 ug/ml by Nanodrop;

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG25117

**GenBank Accession Number:**

NM\_001207055

**GeneID (NCBI):**

1789

**UNIPROT ID:**

Q9UBC3

**Full Name:**

DNA (cytosine-5)-methyltransferase 3 beta

**Calculated MW:**

95 kDa

**Observed MW:**

85-96 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:1000-1:6000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

## Applications

**Tested Applications:**

WB, IHC, IP, ELISA

**Cited Applications:**

WB, IHC, IF, CoIP, ChIP

**Species Specificity:**

human, mouse

**Cited Species:**

human, mouse, rat, goat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

WB : HeLa cells, K-562 cells, MCF-7 cells, Jurkat cells

IP : K-562 cells,

IHC : mouse brain tissue, human breast cancer tissue, mouse testis tissue

## Background Information

DNMT3B is a DNA-(cytosine C5)-methyltransferase that is responsible for establishing the methylation patterns in cooperation with DNMT3A through the de novo methylation pathway. It is essential for the establishment of DNA methylation patterns during development. DNMT3B contains a C-terminal catalytic domain and an N-terminal regulatory domain, which are involved in targeting chromatin to regulate its function (PMID: 31547729). DNMT3B has 8 isoforms with the molecular mass of 80-96 kDa.

## Notable Publications

Author	Pubmed ID	Journal	Application
Dong Pan	34604239	Front Cell Dev Biol	WB
Kalaiselvi Sivalingam	32899583	Brain Sci	WB
Liang Wang	34291682	Integr Cancer Ther	WB

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

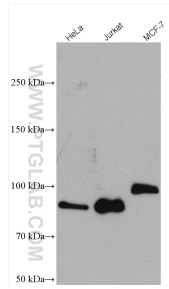
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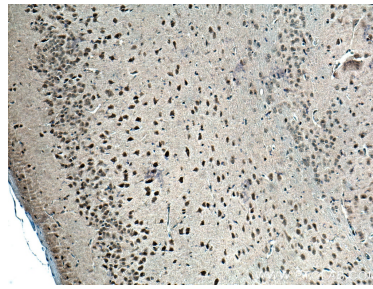
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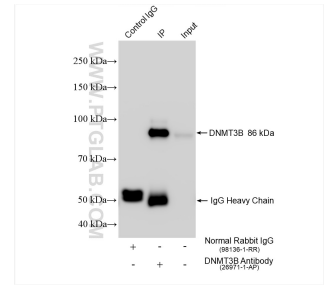
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 26971-1-AP (DNMT3B antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 26971-1-AP (DNMT3B antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-DNMT3B (IP:26971-1-AP, 4ug; Detection:26971-1-AP 1:5000) with K-562 cells lysate 1800 ug.