

Mouse Dnmt3b Antibody (Center)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21512c**Specification**

Mouse Dnmt3b Antibody (Center) - Product Information

Application	WB,E
Primary Accession	O88509
Reactivity	Mouse
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Calculated MW	97228

Mouse Dnmt3b Antibody (Center) - Additional Information**Gene ID** 13436**Other Names**

DNA (cytosine-5)-methyltransferase 3B, Dnmt3b, DNA methyltransferase MmullIB, DNA MTase MmullIB, MMmullIB, Dnmt3b

Target/Specificity

This Mouse Dnmt3b antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 356-390 amino acids from the Central region of Mouse Dnmt3b.

Dilution

WB~~1:2000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Mouse Dnmt3b Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Mouse Dnmt3b Antibody (Center) - Protein Information**Name** Dnmt3b

Function Required for genome-wide de novo methylation and is essential for the establishment of DNA methylation patterns during development. DNA methylation is coordinated with methylation

of histones. May preferentially methylates nucleosomal DNA within the nucleosome core region. May function as transcriptional co-repressor by associating with CBX4 and independently of DNA methylation. Seems to be involved in gene silencing. In association with DNMT1 and via the recruitment of CTCFL/BORIS, involved in activation of BAG1 gene expression by modulating dimethylation of promoter histone H3 at H3K4 and H3K9. Functions as a transcriptional corepressor by associating with ZHX1 (By similarity). Required for DUX4 silencing in somatic cells (By similarity).

Cellular Location

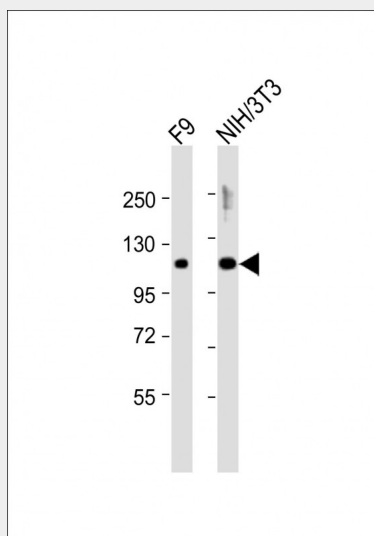
Nucleus. Note=Accumulates in the major satellite repeats at pericentric heterochromatin

Mouse Dnmt3b Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Mouse Dnmt3b Antibody (Center) - Images



All lanes : Anti-Dnmt3b Antibody (Center) at 1:2000 dilution Lane 1: F9 whole cell lysates Lane 2: NIH/3T3 whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 97 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Mouse Dnmt3b Antibody (Center) - Background

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Mouse Dnmt3b Antibody (Center) - References

Okano M.,et al.Nat. Genet. 19:219-220(1998).
Yin B.,et al.Zhongguo Yi Xue Ke Xue Yuan Xue Bao 21:431-438(1999).
Okano M.,et al.Cell 99:247-257(1999).
Gowher H.,et al.J. Biol. Chem. 277:20409-20414(2002).
Christophorou M.A.,et al.Nature 507:104-108(2014).