

Mouse Dnmt2 Antibody (N-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1061a**Specification**

Mouse Dnmt2 Antibody (N-term) - Product Information

Application	WB, IHC-P,E
Primary Accession	O55055
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	46794
Antigen Region	201-230

Mouse Dnmt2 Antibody (N-term) - Additional Information**Gene ID** 13434**Other Names**

tRNA (cytosine(38)-C(5))-methyltransferase, DNA (cytosine-5)-methyltransferase-like protein 2, Dnmt2, DNA methyltransferase homolog MmullP, DNA MTase homolog MmullP, MMmullP, Met-2, Trdmt1, Dnmt2, Met2

Target/Specificity

This Mouse Dnmt2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 201-230 amino acids from the N-terminal region of mouse Dnmt2.

Dilution

WB~~1:1000
IHC-P~~1:50~100

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

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 Dnmt2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Mouse Dnmt2 Antibody (N-term) - Protein Information**Name** Trdmt1

Synonyms Dnmt2 {ECO:0000303|PubMed:16424344}, Met

Function Specifically methylates cytosine 38 in the anticodon loop of tRNA(Asp) (PubMed:[21183079](#), PubMed:[22885326](#), PubMed:[26271101](#)). Has higher activity on tRNA(Asp) modified with queuosine at position 34 (By similarity).

Cellular Location

Cytoplasm {ECO:0000250|UniProtKB:O14717}.

Tissue Location

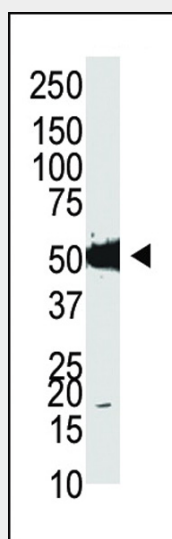
Highly expressed in thymus, testis, and at much lower levels in spleen, lung, brain, heart, kidney, liver, skeletal muscle and embryonic stem cells.

Mouse Dnmt2 Antibody (N-term) - Protocols

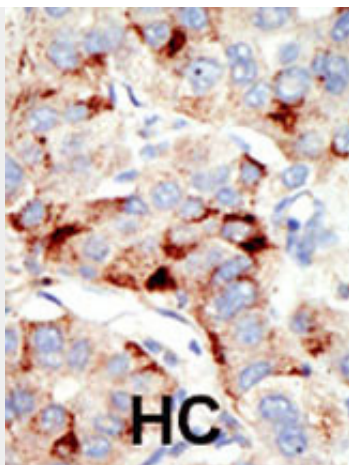
Provided below are standard protocols that you may find useful for product applications.

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

Mouse Dnmt2 Antibody (N-term) - Images



Western blot analysis of anti-mDnmt2 Pab (Cat. #AP1061a) in HL-60 cell lysate. mDnmt2 (arrow) was detected using purified Pab. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

Mouse Dnmt2 Antibody (N-term) - Background

mDnmt2 does not appear to be active as a DNA methyltransferase; however, its strong binding to DNA suggests that it may mark specific sequences in the genome by binding to DNA through the specific target-recognizing motif. mDnmt2 is strongly expressed in thymus, testis, and at much lower levels in spleen, lung, brain, heart, kidney, liver, skeletal muscle and embryonic stem cells. This protein belongs to the 5-cytosine methyltransferase family.

Mouse Dnmt2 Antibody (N-term) - References

Yoder, J.A., et al., Hum. Mol. Genet. 7(2):279-284 (1998).
Okano, M., et al., Nucleic Acids Res. 26(11):2536-2540 (1998).