

**Mouse Dnmt2 Antibody (N-term) Blocking Peptide**

Synthetic peptide

Catalog # BP1061a

**Specification**

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**Mouse Dnmt2 Antibody (N-term) Blocking Peptide - Product Information**

Primary Accession

[O55055](#)**Mouse Dnmt2 Antibody (N-term) Blocking Peptide - 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**

The synthetic peptide sequence used to generate the antibody [AP1061a](/product/products/AP1061a) was selected from the N-term region of human Mouse Dnmt2 . A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**Mouse Dnmt2 Antibody (N-term) Blocking Peptide - 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](http://www.uniprot.org/citations/21183079), PubMed:[22885326](http://www.uniprot.org/citations/22885326), PubMed:[26271101](http://www.uniprot.org/citations/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) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**Mouse Dnmt2 Antibody (N-term) Blocking Peptide - Images****Mouse Dnmt2 Antibody (N-term) Blocking Peptide - 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) Blocking Peptide - 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).