

Mouse Dnmt2 Antibody (N-term) Blocking Peptide

Synthetic peptide

Catalog # BP1061a

Specification

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 MmulIP, DNA MTase homolog MmulIP, MmmulIP, 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).