

**DNMT2 (TRDMT1) Antibody (Center A198) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP1021d****Specification**

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**DNMT2 (TRDMT1) Antibody (Center A198) Blocking peptide - Product Information**Primary Accession [O14717](#)**DNMT2 (TRDMT1) Antibody (Center A198) Blocking peptide - Additional Information****Gene ID** 1787**Other Names**

tRNA (cytosine(38)-C(5))-methyltransferase, DNA (cytosine-5)-methyltransferase-like protein 2, Dnmt2, DNA methyltransferase homolog HsaIIP, DNA MTase homolog HsaIIP, MHsaIIP, PuMet, TRDMT1, DNMT2

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP1021d](/products/AP1021d) was selected from the DNMT2 region of human TRDMT1 (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.

**DNMT2 (TRDMT1) Antibody (Center A198) Blocking peptide - Protein Information****Name** TRDMT1**Synonyms** DNMT2 {ECO:0000303|PubMed:16424344}**Function**

Specifically methylates cytosine 38 in the anticodon loop of tRNA(Asp) (PubMed:[16424344](http://www.uniprot.org/citations/16424344)). Has higher activity on tRNA(Asp) modified with queuosine at position 34 (PubMed:[30093495](http://www.uniprot.org/citations/30093495)).

**Cellular Location**

Cytoplasm.

**Tissue Location**

Ubiquitous. Higher expression in testis, ovary and thymus and at much lower levels in spleen, prostate, colon, small intestine, and peripheral blood leukocytes

**DNMT2 (TRDMT1) Antibody (Center A198) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

**DNMT2 (TRDMT1) Antibody (Center A198) Blocking peptide - Images****DNMT2 (TRDMT1) Antibody (Center A198) Blocking peptide - Background**

CpG methylation is an epigenetic modification that is important for embryonic development, imprinting, and X-chromosome inactivation. Studies in mice have demonstrated that DNA methylation is required for mammalian development. TRDMT1 shows similarity to DNA methyltransferases, but this protein does not display methyltransferase activity. The protein strongly binds DNA, suggesting that it may mark specific sequences in the genome.

**DNMT2 (TRDMT1) Antibody (Center A198) Blocking peptide - References**

Hermann, A., et al., J. Biol. Chem. 278(34):31717-31721 (2003). Franchina, M., et al., Int. J. Biochem. Cell Biol. 33(11):1104-1115 (2001). Dong, A., et al., Nucleic Acids Res. 29(2):439-448 (2001). Yoder, J.A., et al., Hum. Mol. Genet. 7(2):279-284 (1998). Van den Wyngaert, I., et al., FEBS Lett. 426(2):283-289 (1998).