10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

DNA Methyltransferase 2 Antibody
Rabbit Polyclonal Antibody
Catalog # ABV11108

Specification

DNA Methyltransferase 2 Antibody - Product Information

Application	**WB**
Primary Accession	O55055
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**46794**

DNA Methyltransferase 2 Antibody - Additional Information

Gene ID 13434

Positive Control	**Western blot: Murine testis lysate**
Application & Usage	**Western blot: 2 µg/ml. However, the optimal conditions should be determined individually.**

Other Names
DNMT2

Target/Specificity
DNMT2

Antibody Form
Liquid

Appearance
Colorless liquid

Formulation
50 µg of antibody in 100 µl PBS containing 0.02% sodium azide.

Handling
The antibody solution should be gently mixed before use.

Reconstitution & Storage
-20 °C

Background Descriptions

Precautions
DNA Methyltransferase 2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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DNA Methyltransferase 2 Antibody - 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}.

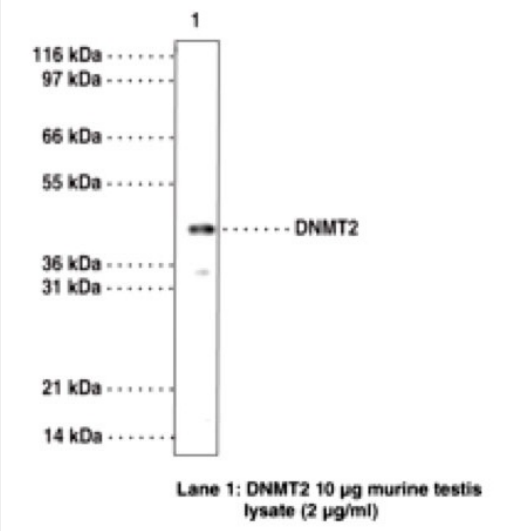
Tissue Location
Highly expressed in thymus, testis, and at much lower levels in spleen, lung, brain, heart, kidney, liver, skeletal muscle and embryonic stem cells.

DNA Methyltransferase 2 Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

DNA Methyltransferase 2 Antibody - Images



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Lane1: DNMT2 10µg murine testis lysate（2µg/ml）

DNA Methyltransferase 2 Antibody - Background

Methylation of DNA at cytosine residues plays an important role in the regulation of gene expression, genomic imprinting, and is essential for mammalian development. Hypermethylation of CpG islands in tumor suppressor genes or hypomethylation of bulk genomic DNA may be linked with development of cancer. To date, three families of mammalian DNA methyltransferase genes have been identified which include DNMT1, DNMT2, and DNMT3. DNMT1 is constitutively expressed in proliferating cells and inactivation of this gene causes global demethylation of genomic DNA and embryonic lethality. DNMT2 is expressed at low levels in adult tissues and its inactivation does not affect DNA methylation or maintenance of methylation. DNMT2 contains all the sequence motifs diagnostic of DNA (cytosine-5)-methyltransferases but appears to lack the large N-terminal regulatory domain common to other eukaryotic methyltransferases.