

DNA Methyltransferase 2 (Clone 102B1259.2) Antibody
Mouse Monoclonal Antibody
Catalog # ABV11109**Specification**

DNA Methyltransferase 2 (Clone 102B1259.2) Antibody - Product Information

Application	WB
Primary Accession	O55055
Reactivity	Human, Mouse
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1κ
Calculated MW	46794

DNA Methyltransferase 2 (Clone 102B1259.2) Antibody - Additional Information**Gene ID** 13434**Positive Control****Western blot: DNMT2 transfected cell lysate****Application & Usage****Western blot: 1-3 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 0.2% gelatin and 0.05% sodium azide.

Handling

The antibody solution should be gently mixed before use.

Reconstitution & Storage

-20 °C

Background Descriptions**Precautions**

DNA Methyltransferase 2 (Clone 102B1259.2) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

DNA Methyltransferase 2 (Clone 102B1259.2) 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

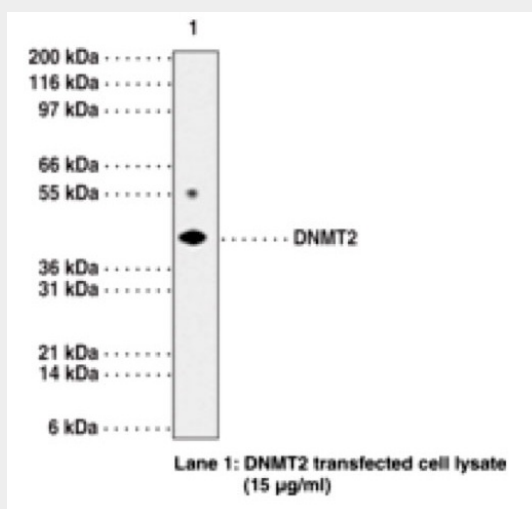
Highly expressed in thymus, testis, and at much lower levels in spleen, lung, brain, heart, kidney, liver, skeletal muscle and embryonic stem cells.

DNA Methyltransferase 2 (Clone 102B1259.2) 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 Cytometry](#)
- [Cell Culture](#)

DNA Methyltransferase 2 (Clone 102B1259.2) Antibody - Images



Lane1: DNMT2 transfected cell lysate□15µg/ml□

DNA Methyltransferase 2 (Clone 102B1259.2) Antibody - Background

Methylation of DNA at cytosine residues plays an important role in regulation of gene expression, genomic imprinting and is essential for mammalian development. 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.