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DNMT2 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant DNMT2.
Catalog # AT1806a

Product Information

Application	WB, IF
Primary Accession	O14717
Other Accession	BC047733
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 lambda
Clone Names	1.0E+12
Calculated MW	44597

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	DNMT2 (AAH47733, 1 a.a. ~ 391 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IF~~1:50~200
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	DNMT2 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

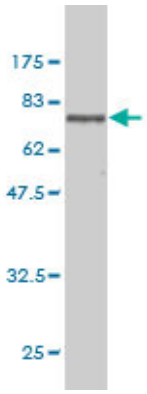
Background

This gene encodes a protein responsible for the methylation of aspartic acid transfer RNA, specifically at the cytosine-38 residue in the anticodon loop. This enzyme also possesses residual DNA-(cytosine-C5) methyltransferase activity. While similar in sequence and structure to DNA cytosine methyltransferases, this gene is distinct and highly conserved in its function among taxa.

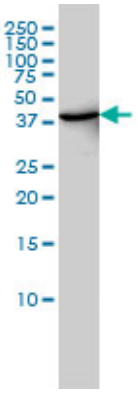
References

Hepatitis B virus replication induces methylation of both host and viral DNA. Vivekanandan P, et al. J Virol, 2010 May. PMID 20147412.Assessment of a polymorphism of SDK1 with hypertension in Japanese Individuals. Oguri M, et al. Am J Hypertens, 2010 Jan. PMID 19851296.Azacytidine inhibits RNA methylation at DNMT2 target sites in human cancer cell lines. Schaefer M, et al. Cancer Res, 2009 Oct 15. PMID 19808971.Genetic variation in healthy oldest-old. Halaschek-Wiener J, et al. PLoS One, 2009 Aug 14. PMID 19680556.A systematic search for DNA methyltransferase polymorphisms reveals a rare DNMT3L variant associated with subtelomeric hypomethylation. El-Maarri O, et al. Hum Mol Genet, 2009 May 15. PMID 19246518.

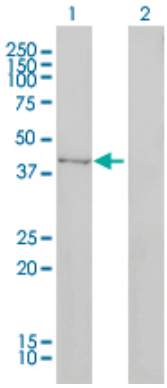
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (68.75 KDa) .

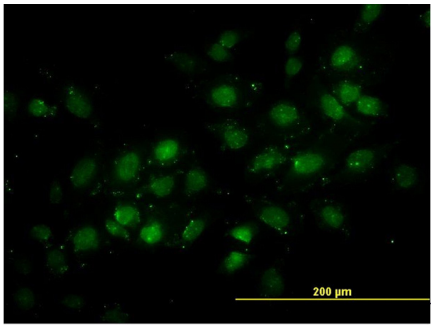


DNMT2 monoclonal antibody (M01), clone 1E12 Western Blot analysis of DNMT2 expression in Hela S3 NE ((Cat # AT1806a)



Western Blot analysis of DNMT2 expression in transfected 293T cell line by DNMT2 monoclonal antibody (M01), clone 1E12.

Lane 1: DNMT2 transfected lysate(45 KDa).
Lane 2: Non-transfected lysate.



Immunofluorescence of monoclonal antibody to DNMT2 on HeLa cell. [antibody concentration 40 ug/ml]

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.