

Rabbit MBD2 Polyclonal Antibody | anti-MBD2 antibody

MBD2 Antibody (Center)

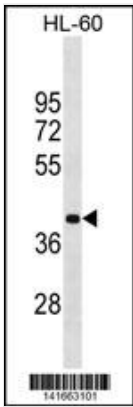
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA283773	Rabbit	Human (Predicted Reactivity: Mouse)	Immunofluorescence, ELISA, Western Blot

PRODUCT SYNONYMS

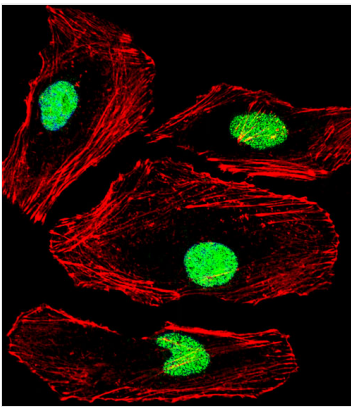
MBD2; Polyclonal Antibody; MBD2 Antibody (Center); Methyl-CpG-binding domain protein 2; Demethylase; DMTase; Methyl-CpG-binding protein MBD2; anti-MBD2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human (Predicted Reactivity: Mouse)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This MBD2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 250-279 amino acids from the Central region of human MBD2.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Concentration	Vial Concentration: 0.29 (varies by lot)
Sequence Positions	250-279
Sequence Length	411
Applicable Applications for anti-MBD2 antibody	IF (Immunofluorescence), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



WB (Western Blot)
MBD2 Antibody (Center) western blot analysis in HL-60 cell line lysates (35ug/lane). This demonstrates the MBD2 antibody detected the MBD2 protein (arrow).



IF (Immunofluorescence)
Fluorescent confocal image of HeLa cell stained with MBD2 Antibody (Center). HeLa cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with MBD2 primary antibody (1:25, 1 h at 37 degree). For secondary antibody, Alexa Fluor 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37 degree). Cytoplasmic actin was counterstained with Alexa Fluor 555 (red) conjugated Phalloidin (7 units/ml, 1 h at 37 degree). Nuclei were counterstained with DAPI (blue) (10 ug/ml, 10 min). MBD2 immunoreactivity is localized to Nucleus significantly.

ADDITIONAL INFORMATION

Related Product Information for anti-MBD2 antibody	DNA methylation is the major modification of eukaryotic genomes and plays an essential role in mammalian development. Human proteins MECP2, MBD1, MBD2, MBD3, and MBD4 comprise a family of nuclear proteins related by the presence in each of a methyl-CpG binding domain (MBD). Each of these proteins, with the exception of MBD3, is capable of binding specifically to methylated DNA. MECP2, MBD1 and MBD2 can also repress transcription from methylated gene promoters. The protein encoded by this gene may function as a mediator of the biological consequences of the methylation signal. It is also reported that the this protein functions as a demethylase to activate transcription, as DNA methylation causes gene silencing.
References	Liu, C.Y., et al. Carcinogenesis 31(7):1259-1263(2010) Guey, L.T., et al. Eur. Urol. 57(2):283-292(2010) Hosgood, H.D. III, et al. Respir Med 103(12):1866-1870(2009) McDonough, C.W., et al. Hum. Genet. (2009) In press : Shen, M., et al. Environ. Mol. Mutagen. 50(4):285-290(2009)

NCBI AND UNIPROT INFORMATION

NCBI GI #	4505117
NCBI GeneID	8932
NCBI Accession #	NP_003918.1; NP_056647.1
NCBI GenBank Nucleotide #	NM_003927.4
UniProt Accession #	Q9UBB5; O95242; Q9UIS8
Molecular Weight	43255
NCBI Official Full Name	methyl-CpG-binding domain protein 2 isoform 1
NCBI Official Synonym Full Names	methyl-CpG binding domain protein 2
NCBI Official Symbol	MBD2

NCBI Official Synonym Symbols	DMTase; NY-CO-41
NCBI Protein Information	methyl-CpG-binding domain protein 2
UniProt Protein Name	Methyl-CpG-binding domain protein 2
UniProt Gene Name	MBD2
UniProt Synonym Gene Names	DMTase
UniProt Entry Name	MBD2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/mbd2-antibody-immunofluorescence-western-blot-elisa/283773>