

Rabbit MBD2 Polyclonal Antibody | anti-MBD2 antibody

MBD2 antibody - middle region

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA198568	Rabbit	Cow, Dog, Guinea Pig, Horse, Human, Mouse, Rabbit, Rat, Zebrafish	Immunohistochemistry, Western Blot

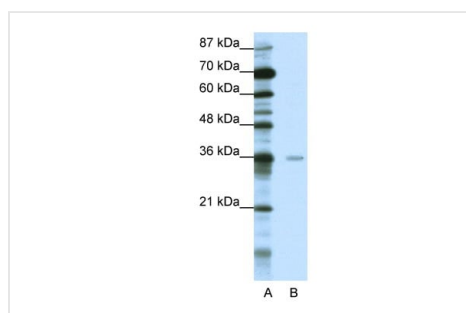
PRODUCT SYNONYMS

MBD2; Polyclonal Antibody; MBD2 antibody - middle region; anti-MBD2 antibody

PRODUCT SPECIFICATIONS

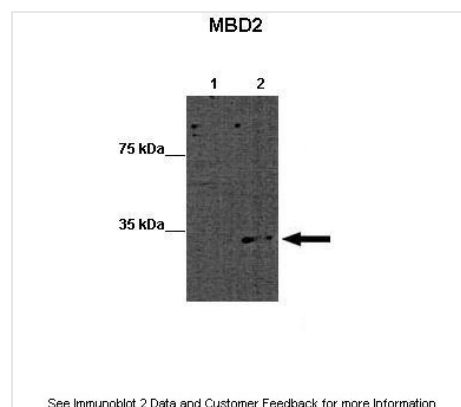
Host	Rabbit
Reactivity	Cow, Dog, Guinea Pig, Horse, Human, Mouse, Rabbit, Rat, Zebrafish
Clonality	Polyclonal
Purity/Purification	Protein A purified
Form/Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Sequence	Synthetic peptide with the following region: DC PALPPGWKKE EVIRKSGLSA GKSDVYYFSP SGKKFRSKPQ LARYLGNT
Sequence Length	302
Applicable Applications for anti-MBD2 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Homology	Cow: 100%; Dog: 100%; Guinea Pig: 100%; Horse: 100%; Human: 100%; Mouse: 100%; Rabbit: 100%; Rat: 100%; Zebrafish: 93%
Immunogen	The immunogen is a synthetic peptide directed towards the middle region of human MBD2
Preparation and Storage	For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



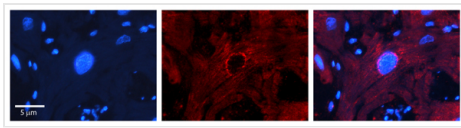
WB (Western Blot)

WB Suggested Anti-MBD2 Antibody Titration: 0.625ug/mL
ELISA Titer: 1:1562500
Positive Control: HepG2 cell lysate



WB (Western Blot)

Lanes: Lane 1: 15ug WT mouse ES lysate
Lane 2: 15ug MBD2 KO mouse ES lysate
Primary Antibody Dilution: 1:1000
Secondary Antibody: Goat anti-rabbit-HRP
Secondary Antibody Dilution: 1:2500
Gene Name: MBD2
Submitted by: Austin J. Cooney, Baylor College of Medicine



IHC (Immunohistochemistry)

Rabbit Anti-MBD2 Antibody
Formalin Fixed Paraffin Embedded Tissue: Human heart
Tissue Observed Staining: Nucleus
Primary Antibody Concentration: 1:100
Other Working Concentrations: N/A
Secondary Antibody: Donkey anti-Rabbit-Cy3
Secondary Antibody Concentration: 1:200
Magnification: 20X
Exposure Time: 0.5 - 2.0 sec

ADDITIONAL INFORMATION

Related Product Information for anti-MBD2 antibody	This is a rabbit polyclonal antibody against MBD2. It was validated on Western Blot using a cell lysate as a positive control.
	Target Description: MBD2 belongs to 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. MBD2 can also repress transcription from methylated gene promoters. MBD2 may function as a mediator of the biological consequences of the methylation signal. It is also reported that the MBD2 functions as a demethylase to activate transcription, as DNA methylation causes gene silencing. 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.
Product Categories/Family for anti-MBD2 antibody	Polyclonal ; Transcription Factor ; Transcription Regulation ; Chromatin & Nuclear Signaling ; Developmental Biology ; Signal Transduction ; Various ; Epigenetics ; DNA/RNA/Protein Interactions ; Transcription Factors

NCBI AND UNIPROT INFORMATION

NCBI GI #	7710145
NCBI GeneID	8932
NCBI Accession #	NP_056647
NCBI GenBank Nucleotide #	NM_015832
UniProt Accession #	Q9UBB5
Molecular Weight	32kDa
NCBI Official Full Name	methyl-CpG-binding domain protein 2 testis-specific isoform
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.

