

Rabbit anti-Human, mouse MBD3 Polyclonal Antibody | anti-MBD3 antibody

MBD3 Antibody (C-term)

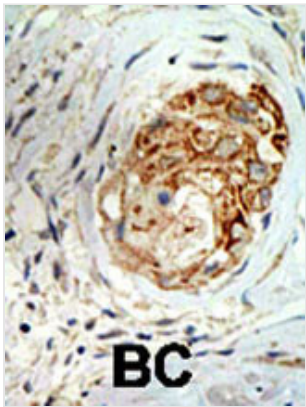
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA289664	Rabbit	Human, mouse	Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

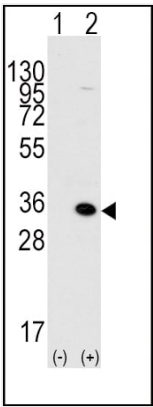
MBD3; Polyclonal Antibody; MBD3 Antibody (C-term); Methyl-CpG-binding domain protein 3; Methyl-CpG-binding protein MBD3; anti-MBD3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, mouse
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This MBD3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 264-291 amino acids from the C-terminal region of human MBD3.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Concentration	Vial Concentration: 2 (varies by lot)
Sequence Positions	264-291
Sequence Length	259
Applicable Applications for anti-MBD3 antibody	IHC (Immunohistochemistry), 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.



IHC (Immunohistochemistry)
Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.



WB (Western Blot)
Western blot analysis of MBD3 (arrow) using rabbit polyclonal MBD3 Antibody (C-term). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the MBD3 gene (Lane 2) (Origene Technologies).

ADDITIONAL INFORMATION

Related Product Information for anti-MBD3 antibody	DNA methylation, or the addition of methyl groups to cytosine bases in the dinucleotide CpG, is imperative to proper development and regulates gene expression. The methylation pattern involves the enzymatic processes of methylation and demethylation. The demethylation enzyme was recently found to be a mammalian protein, which exhibits demethylase activity associated to a methyl-CpG-binding domain (MBD). The enzyme is able to revert methylated cytosine bases to cytosines within the particular dinucleotide sequence mdCpdG by catalyzing the cleaving of the methyl group as methanol. MeCP2 and MBD1 (PCM1) are first found to repress transcription by binding specifically to methylated DNA. MBD2 and MBD4 (also known as MED1) were later found to colocalize with foci of heavily methylated satellite DNA and believed to mediate the biological functions of the methylation signal. Surprisingly, MBD3 does not bind methylated DNA both in vivo and in vitro. MBD1, MBD2, MBD3, and MBD4 are found to be expressed in somatic tissues, but the expression of MBD1 and MBD2 is reduced or absent in embryonic stem cells, which are known to be deficient in MeCP1 activity. MBD4 have homology to bacterial base excision repair DNA N-glycosylases/lyases. In some microsatellite unstable tumors MBD4 is mutated at an exonic polynucleotide tract.
References	Bhattacharya SK, Ramchandani S, Cervoni N, Szyf. M. Nature, 397 (6720):579-583 1999. Hendrich B and Bird A. Mol Cell Biol, 18: 6538-6547(1998). Petronzelli F, Riccio A, Markham GD, Seeholzer SH, Stoerker J, Genuardi M, Yeung AT, Matsumoto Y, Bellacosa A. J Biol Chem 275 (42): 32422-32429 (2000). Bader S, Walker M, Harrison D. Br J Cancer 83(12): 1646-1649 (2000).

NCBI AND UNIPROT INFORMATION

NCBI GI #	527498244
NCBI GeneID	53615
NCBI Accession #	NP_001268382.1; NP_001268383.1
NCBI GenBank Nucleotide #	NM_001281453.1
UniProt Accession #	O95983; Q6PIL9; Q6PJZ9; Q86XF4; A8K4B7; D6W5Z2
Molecular Weight	32844
NCBI Official Full Name	methyl-CpG-binding domain protein 3 isoform 1
NCBI Official Synonym Full Names	methyl-CpG binding domain protein 3
NCBI Official Symbol	MBD3

NCBI Protein Information	methyl-CpG-binding domain protein 3
UniProt Protein Name	Methyl-CpG-binding domain protein 3
UniProt Gene Name	MBD3
UniProt Entry Name	MBD3_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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/mbd3-antibody-immunohistochemistry-western-blot-elisa/289664>