

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

MBD3 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA320985	Rabbit	Human, Mouse	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

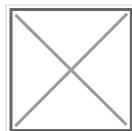
PRODUCT SYNONYMS

MBD3; Polyclonal Antibody; MBD3 Antibody; AI181826; AU019209; MBD 3; Mbd3; MBD3: methyl CpG binding domain protein 3; MBD3_HUMAN; Methyl CpG binding domain protein 3; Methyl CpG binding protein MBD3; Methyl-CpG-binding domain protein 3; Methyl-CpG-binding protein MBD3; anti-MBD3 antibody

PRODUCT SPECIFICATIONS

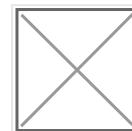
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	MBD3 antibody detects endogenous levels of total MBD3
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	291
Applicable Applications for anti-MBD3 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human MBD3
Subcellular Location	Nucleus. Nuclear, in discrete foci.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Dog, Chicken
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Dog (100%), Chicken (91%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA320985 staining Hela by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



WB (Western Blot)

Western blot analysis on Jurkat cell lysate using MBD3 Antibody, The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-MBD3 antibody	Description: MBD3 methyl-CpG binding (MBD) proteins appear to bind differentially methylated domains (DMDs) of DNA, to recruit repression complexes, and to silence the locus. The methyl CpG binding domain of human MBD3 may not directly bind mCpG but does interact with the NuRD/Mi2 components HDAC1 and MTA2. Plays a role in histone deacetylation and nucleosome remodeling. Increased levels have been reported in lung cancer and glioblastomas and may be a therapeutic target. Function: Acts as transcriptional repressor and plays a role in gene silencing. Does not bind to DNA by itself (PubMed:12124384). Binds to DNA with a preference for sites containing methylated CpG dinucleotides (in vitro). Binds to a lesser degree DNA containing unmethylated CpG dinucleotides (PubMed:24307175). Recruits histone deacetylases and DNA methyltransferases. Subunit Structure: Heterodimer with MBD2. Part of the NuRD and the MeCP1 complex. Interacts with BCL6, HDAC1, MTA2, DNMT1, p66-alpha and p66-beta.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	527498244
NCBI GeneID	53615
NCBI Accession #	NP_001268382.1
NCBI GenBank Nucleotide #	NM_001281453.1
UniProt Accession #	O95983; Q6PIL9; Q6PJZ9; Q86XF4; A8K4B7; D6W5Z2
Molecular Weight	Observed: 33 kDa Predicted: 33 kDa
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

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.