

Mouse anti-Human MBD3 Monoclonal Antibody | anti-MBD3 antibody

MBD3 Mouse Monoclonal Antibody [Clone PCRP-MBD3-1C4]

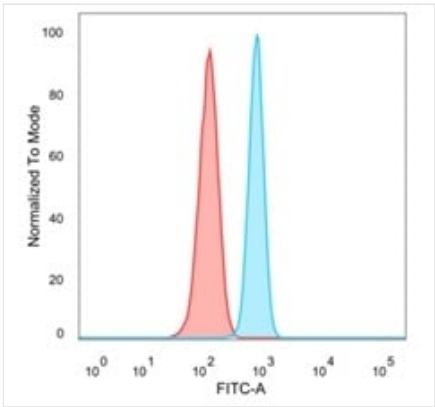
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA215840	Mouse	Human	Immunofluorescence, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

MBD3; Monoclonal Antibody; MBD3 Mouse Monoclonal Antibody [Clone PCRP-MBD3-1C4]; Methyl CpG binding protein MBD3; Methyl-CpG-binding domain protein 3; Methyl-CpG-binding protein MBD3; anti-MBD3 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse/IgG2b
Clone Number	PCRP-MBD3-1C4
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Concentration	Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml (varies by lot)
Applicable Applications for anti-MBD3 antibody	IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Immunogen	Recombinant full-length human MBD3 protein
Cellular Localization	Nucleus
Positive Control	HeLa or K562 cells.
Hu-chromosome Location	19p13.3
Unigene	178728
Preparation and Storage	Antibody with azide: store at 2 to 8 degree C Antibody without azide: store at -20 to -80 degree C Antibody is stable for 24 months. Non-hazardous. No MSDS required.



FCM/FACS (Flow Cytometry)
Flow Cytometric Analysis of PFA-fixed HeLa cells. MBD3 Mouse Monoclonal Antibody (PCRP-MBD3-1C4) followed by goat anti-mouse IgG-CF488 (blue); unstained cells (red).

ADDITIONAL INFORMATION

Related Product Information for anti-MBD3 antibody	Methylation of DNA contributes to the regulation of gene transcription in both mammalian and invertebrate systems. DNA methylation predominates on cytosine residues that are present in dinucleotide motifs consisting of a 5' cytosine followed by guanosine (CpG), and it requires the enzymatic activity of DNA methyltransferase, which results in transcriptional repression of the methylated gene. Several proteins have been identified that associate with the methyl-CpG sites; they include methyl-CpG binding protein 1 (MBD1), MBD2, MBD3, MBD4 and MeCP2. Expression of the MBD proteins is highest in somatic tissues. MBD1 binds in a context specific manner to methyl-CpG rich domains and, in turn, mediates the transcriptional inhibition that is commonly observed with DNA methylation. Similarly, MBD2 inhibits transcription of methylated genes by associating with histone deacetylase (HDAC1) within the MeCP1 repressor complex. In addition, MBD4, which is also designated MED1, associates with the mismatch repair protein MLH1 and preferentially binds to methylated cytosine residues in mismatched base pairs. MeCP2 binds tightly to chromosomes in a methylation-dependent manner and associates with a corepressor complex containing the transcriptional repressor mSin3A and histone deacetylases. MeCP2 binds tightly to chromosomes in a methylation-dependent manner and associates with a corepressor complex containing the transcriptional repressor mSin3A and histone deacetylases.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4505119
NCBI GeneID	53615
NCBI Accession #	NP_003917.1
NCBI GenBank Nucleotide #	NM_003926.5
UniProt Accession #	O95983; Q6PIL9; Q6PJZ9; Q86XF4; A8K4B7; D6W5Z2
Molecular Weight	32,844 Da
NCBI Official Full Name	methyl-CpG-binding domain protein 3
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/monoclonal/mbd3-antibody-clone-pcrp-mbd3-1c4-immunofluorescence-flow-cytometry-elisa/215840>