Product Datasheet

MBD3 Rabbit mAb

Catalog No: #49858

Package Size: #49858-1 50ul #49858-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

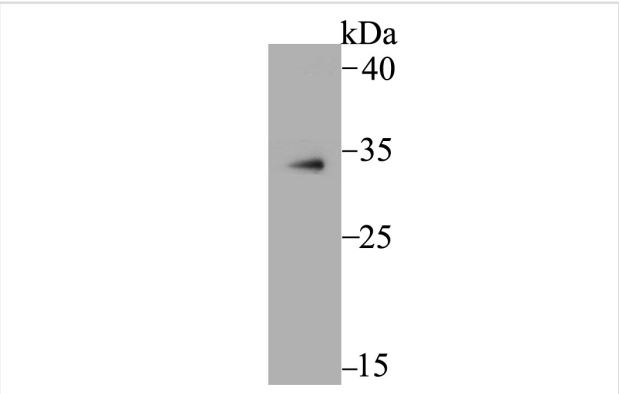
Description

Product Name	MBD3 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	JB61-47
Purification	ProA affinity purified
Applications	WB,ICC,IF,IHC,FC,IP
Species Reactivity	Hu, Ms, Rt
Immunogen Description	Recombinant protein
Other Names	AI181826 antibody AU019209 antibody MBD 3 antibody Mbd3 antibody MBD3: methyl CpG binding domain protein 3 antibody MBD3_HUMAN antibody Methyl CpG binding domain protein 3 antibody Methyl CpG binding protein MBD3 antibody Methyl-CpG-binding domain protein 3 antibody Methyl-CpG-binding protein MBD3 antibody
Accession No.	Swiss-Prot#:O95983
Uniprot	O95983
GeneID	53615;
Calculated MW	33 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

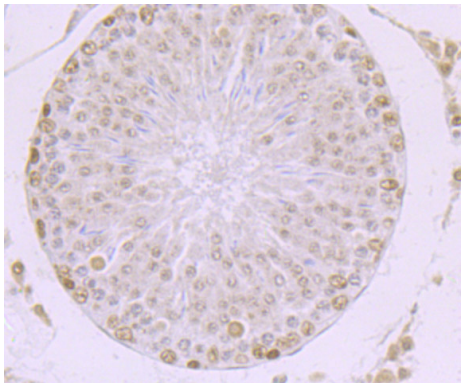
Application Details

WB: 1:500 IHC: 1:50-1:200 ICC: 1:50-1:200FC: 1:50-1:100

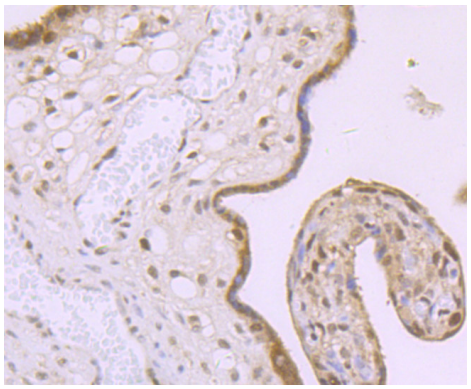
Images



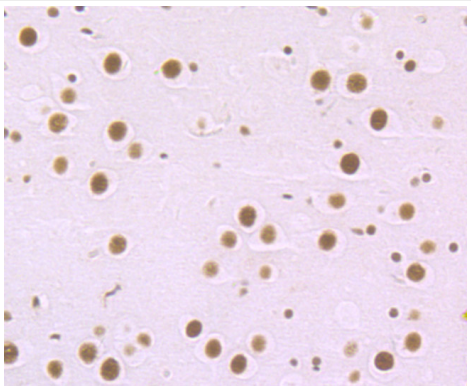
Western blot analysis of MBD3 on U937 cell lysate using anti-MBD3 antibody at 1/500 dilution.



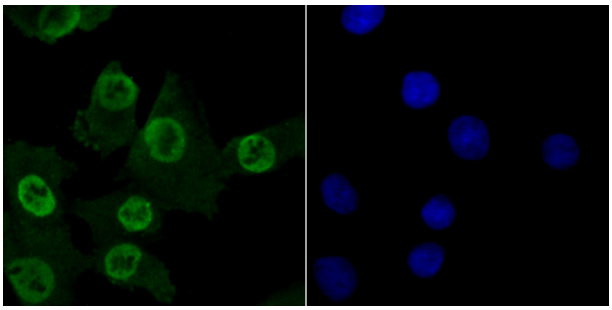
Immunohistochemical analysis of paraffin-embedded rat testis tissue using anti-MBD3 antibody. Counter stained with hematoxylin.



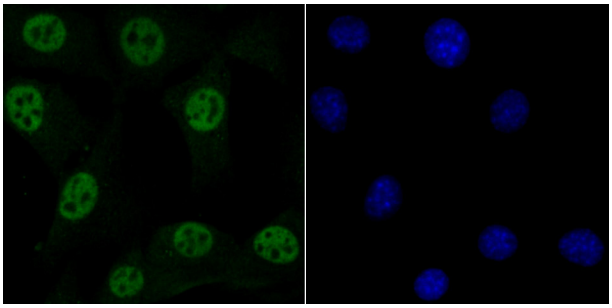
Immunohistochemical analysis of paraffin-embedded human placenta tissue using anti-MBD3 antibody. Counter stained with hematoxylin.



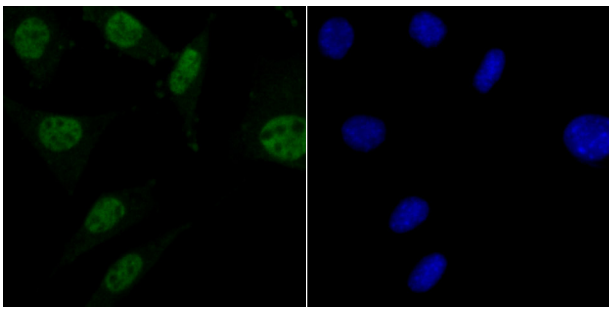
Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-MBD3 antibody. Counter stained with hematoxylin.



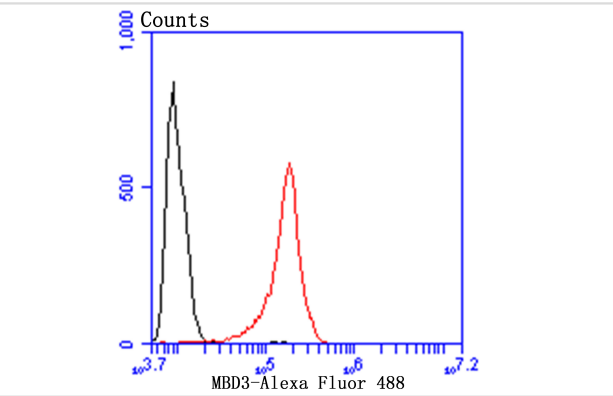
ICC staining MBD3 in A549 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining MBD3 in NIH-3T3 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining MBD3 in SH-SY-5Y cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of SH-SY-5Y cells with MBD3 antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti-rabbit IgG was used as the secondary antibody.

Background

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, and they include methyl-CpG binding protein-1 (MBD1), MBD2, MBD3, MBD4 and MeCP2. Expression of the MBD proteins is highest in somatic tissues.

References

Note: This product is for in vitro research use only