

10-7006: Monoclonal Antibody to MBD2/MBD3 (Clone: ABM14A8)

Clonality :	Monoclonal
Clone Name :	ABM14A8
Application :	IHC,FACS,WB
Reactivity :	Human
Gene :	MBD3
Gene ID :	53615
Uniprot ID :	O95983
Format :	Purified
Alternative Name :	MBD3
Isotype :	Mouse IgG1 Kappa
Immunogen Information :	A partial length recombinant MBD3 protein (amino acids 1-290) was used as the immunogen for this antibody.

Description

MBD2 is a subunit of the NuRD complex that is postulated to mediate gene repression via recruitment of the complex to methylated DNA. This protein binds around 1 kb downstream of the transcription start site of a subset of 400 CpG island promoters that are characterized by the presence of active histone marks, RNA polymerase II (Pol2) and low to medium gene expression levels and H3K36me3 deposition. Methylated MBD2 is involved in silencing methylated tumor suppressor genes as well as activation of pro-metastatic genes. MBD2 also plays a key role in regulating expression of a range of genes that are associated with optimal DC (Dendritic cells) activation and function.

Product Info

Amount :	25 µg / 100 µg
Purification :	Protein G Chromatography
Content :	25 µg in 50 µl/100 µg in 200 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.
Storage condition :	Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

Western blot analysis: 2-4 µg/ml, Immunohistochemical analysis: 5 µg/ml, FACS analysis: 0.5 µg/10⁶ cells

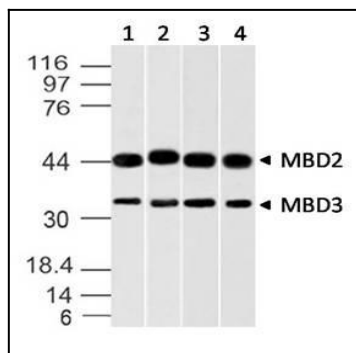


Fig-1: Western blot analysis of MBD3 (and MBD2). Anti-MBD3 (and MBD2) antibody (Clone: ABM14A8) was used at 2 μ g/ml on A431, K562, A375 and HEK293 lysates.

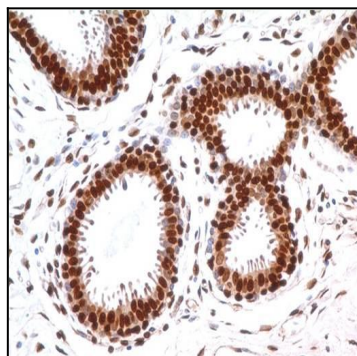


Fig-2 : Immunohistochemical analysis of MBD3 in human breast tissue using MBD3 antibody (Clone: ABM14A8) at 5 μ g/ml.

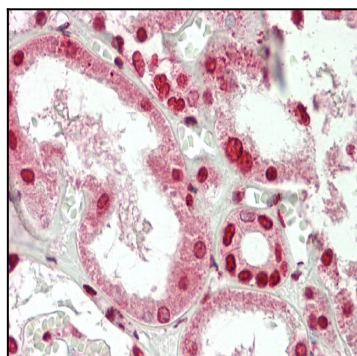


Fig-3 : Immunohistochemical analysis of MBD3 in human Kidney tissue using MBD3 antibody (Clone: ABM14A8) at 10 μ g/ml.

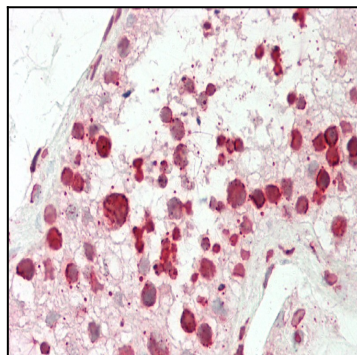


Fig-4 : Immunohistochemical analysis of MBD3 in human Testis tissue using MBD3 antibody (Clone: ABM14A8) at 10 μ g/ml.

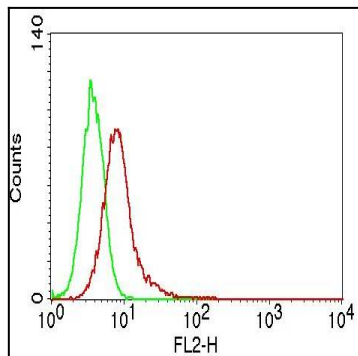


Fig-5: Intracellular flow analysis of MBD2/MBD3 in Jurkat cells using 0.5 $\mu\text{g}/10^6$ cells of MBD2/MBD3 antibody (Clone: ABM14A8). Green represents isotype control; red represents anti-MBD2/MBD3 antibody. Goat anti-mouse PE conjugate was used as secondary antibody.

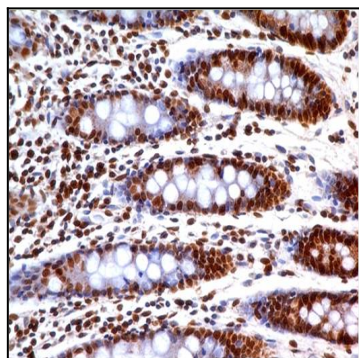


Fig-6 : Immunohistochemical analysis of MBD3 in human Colon tissue using MBD3 antibody (Clone: ABM14A8) at 5 $\mu\text{g}/\text{ml}$.

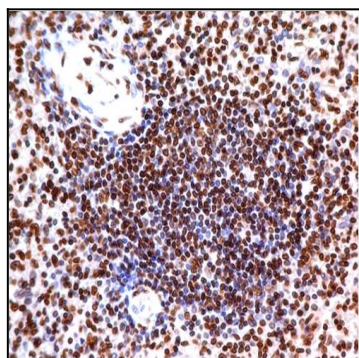


Fig-7 : Immunohistochemical analysis of MBD3 in human Spleen tissue using MBD3 antibody (Clone: ABM14A8) at 5 $\mu\text{g}/\text{ml}$.

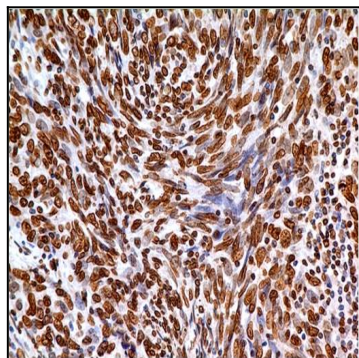


Fig-8 : Immunohistochemical analysis of MBD3 in Squamous cell carcinoma of Lungs using MBD3 antibody (Clone: ABM14A8) at 5 $\mu\text{g}/\text{ml}$.