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10-7007-F: Monoclonal Antibody to MBD1 (Clone: ABM15H2) FITC Conjugated

Clonality: Monoclonal Clone Name: ABM15H2 Application: FACS Reactivity: Human Conjugate: FITC Gene: MBD1 Gene ID: 4152 **Uniprot ID: 09UIS9** Format: **Purified**

Alternative Name: MBD1,CXXC3,PCM1 Isotype: Mouse IgG1 Kappa

Immunogen Information: A partial length recombinant MBD1 protein (amino acids 291-586) was used as the

immunogen for this antibody.

Description

MBD1 (Methyl-CpG-Binding Domain Protein 1) protein is a primary candidate for the readout of DNA methylation as it recruits chromatin remodelers, histone deacetylases and methylases to methylated DNA associated with gene repression. This protein, a member of a transcriptional repressor family MBD, is predominantly expressed in neurons. MBD protein binding requires both functional MBD domains and methyl-CpGs; however, some MBD proteins also bind unmethylated DNA and active regulatory regions via alternative regulatory domains or interaction with the NuRD/Mi-2 (Nucleosome Remodeling Deacetylase) complex members. The CXXC3 domain of MBD1 makes it a unique member of the MBD family due to its affinity to unmethylated DNA. MBD1 acts as an epigenetic regulator via different mechanisms, such as the formation of the MCAF1/MBD1/SETDB1 complex or the MBD1-HDAC3 complex. It also plays an important role in disease progression, contributes to the drug resistance of PC cells; however, the mechanism underlying the drug resistance endowed by MBD1 remains unknown.

Product Info

Amount : 100 μg

Purification: Protein G Chromatography

Content : 25 μ g in 125 μ l/100 μ g in 500 μ l Tris and 0.05% sodium azide. Sodium azide is highly toxic.

Storage condition : Store the antibody at 4°C, stable for 6 months.

Application Note

FACS: 0.5-2 μg/10⁶ cells



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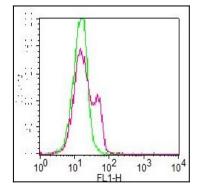


Fig-1: Intracellular FLOW staining of PMA treated Jurkat cells using 0.5 μg of antibody. Green represents FITC conjugated isotype control (Abeomics). Red represents FITC conjugated MBD1 (10-7007-F).