9853 Pacific Heights Blvd.
Suite D. San Diego,
CA 92121, USA
Tel: 858-263-4982
Email: info@abeomics.com

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 :	Q9UIS9
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 :	25 µg / 100 µg
Purification :	Protein G Chromatography
Content :	25 µg in 125 µl/100 µg in 500 µl 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/10^6 cells

For Research Use Only. Not for use in diagnostic/therapeutics procedures.

9853 Pacific Heights Blvd.
Suite D. San Diego,
CA 92121, USA
Tel: 858-263-4982
Email: info@abeomics.com

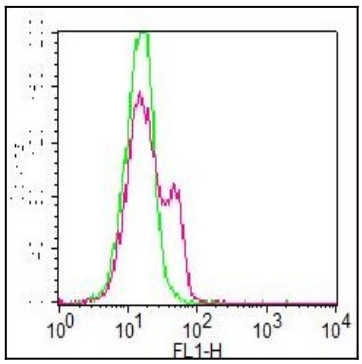


Fig-1: Intracellular FLOW staining of PMA treated Jurkat cells using 0.5 µg of antibody. Green represents FITC conjugated isotype control (Abeomics). Red represents FITC conjugated MBD1 (10-7007-F).

For Research Use Only. Not for use in diagnostic/therapeutics procedures.