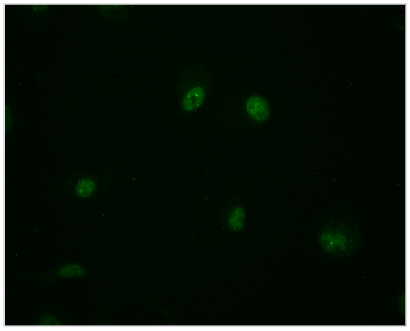
MBD1 Recombinant Monoclonal Antibody

Product Code	CSB-RA794480A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	Q9UIS9
Immunogen	A synthesized peptide derived from human MBD1
Species Reactivity	Human
Tested Applications	ELISA, IF; Recommended dilution: IF:1:50-1:200
Relevance	Transcriptional repressor that binds CpG islands in promoters where the DNA is methylated at position 5 of cytosine within CpG dinucleotides. Binding is abolished by the presence of 7-mG that is produced by DNA damage by methylmethanesulfonate (MMS). Acts as transcriptional repressor and plays a role in gene silencing by recruiting ATF7IP, which in turn recruits factors such as the histone methyltransferase SETDB1. Probably forms a complex with SETDB1 and ATF7IP that represses transcription and couples DNA methylation and histone 'Lys-9' trimethylation. Isoform 1 and isoform 2 can also repress transcription from unmethylated promoters. {ECO:0000269|PubMed:10454587, ECO:0000269|PubMed:10648624, ECO:0000269|PubMed:12665582, ECO:0000269|PubMed:12697822, ECO:0000269|PubMed:12711603, ECO:0000269|PubMed:14555760, ECO:0000269|PubMed:14610093, ECO:0000269|PubMed:9207790, ECO:0000269|PubMed:9774669}.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in 10mM phosphate buffered saline , pH 7.4, 150mM sodium chloride, 0.05% BSA, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Epigenetics and Nuclear Signaling
Target Names	MBD1
Clone No.	10B10
Image	



Immunofluorescence staining of MCF-7 cell with CSB-RA794480A0HU at 1:50, counter-stained with DAPI. The cells were fixed in 4% formaldehyde and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 498-congugated AffiniPure Goat Anti-Rabbit IgG(H+L).

Usage

For Research Use Only. Not for use in diagnostic or therapeutic procedures.