

## Anti-MBD1 Antibody (1J371)

## Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	1J371
Purification:	Affinity-chromatography

## Applications

Verified Activity:	Immunofluorescence staining of MCF-7 cell with TMAH-00740 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-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).
Application:	ELISA,IF
Recommended	IF:1:50-1:200.

## Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

## Antigen Details

Immunogen:	A synthetic peptide: Human MBD1
Antigen Species:	Human
Gene ID:	4152
Uniprot ID:	Q9UIS9
Synonyms:	Protein containing methyl-CpG-binding domain 1;CXXC3;CXXC-type zinc finger protein 3;PCM1; Methyl-CpG-binding protein MBD1;MBD 1;Methyl-CpG-binding domain protein 1
Biology Area:	Epigenetics and Nuclear Signaling

## Research Background

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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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