



# Anti-MBD1 (aa 593-605) polyclonal antibody (CABT-BL2330)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Immunogen</b>	Synthetic peptide: C-RSKDLKKPGARKQ, corresponding to amino acids 593-605 of Human MBD 1.
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Human
<b>Purification</b>	Immunogen affinity purified
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB, ChIP
<b>Cellular Localization</b>	Nucleus speckle. Chromosome. Nuclear, in a punctate pattern. Associated with euchromatic regions of the chromosomes, with pericentromeric regions on chromosome 1 and with telomeric regions from several chromosomes.
<b>Format</b>	Liquid
<b>Buffer</b>	PBS, 1 mg/ml BSA, 0.05% sodium azide
<b>Preservative</b>	0.05% Sodium Azide
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

## BACKGROUND

## Introduction

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 AFT7IP, 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.

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## GENE INFORMATION

Entrez Gene ID	<a href="#">4152</a>
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Protein Refseq	<a href="#">NP_001191065</a>
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UniProt ID	<a href="#">A8K654</a>
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