

**Anti-MBD3 Monoclonal Antibody**  
**Catalog # ABO14741****Specification**

---

**Anti-MBD3 Monoclonal Antibody - Product Information**

Application	WB, IF, ICC, IP, FC
Primary Accession	<a href="#">O95983</a>
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid

**Description**

Anti-MBD3 Monoclonal Antibody . Tested in WB, ICC/IF, IP, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.

**Anti-MBD3 Monoclonal Antibody - Additional Information**

**Gene ID** 53615

**Other Names**

Methyl-CpG-binding domain protein 3, Methyl-CpG-binding protein MBD3, MBD3

**Application Details**

WB 1:500-1:2000<br>ICC/IF 1:50-1:200<br>IP 1:50<br>FC 1:50

**Contents**

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

**Immunogen**

A synthesized peptide derived from human MBD3 Does not bind DNA by itself. Recruits histone deacetylases and DNA methyltransferases. Acts as transcriptional repressor and plays a role in gene silencing.

**Purification**

Affinity-chromatography

**Storage**

**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.**

**Anti-MBD3 Monoclonal Antibody - Protein Information**

**Name** MBD3

**Function**

Acts as a component of the histone deacetylase NuRD complex which participates in the remodeling of chromatin (PubMed:<a href="http://www.uniprot.org/citations/12124384" target="\_blank">12124384</a>, PubMed:<a href="http://www.uniprot.org/citations/16428440" target="\_blank">16428440</a>, PubMed:<a href="http://www.uniprot.org/citations/28977666" target="\_blank">28977666</a>). Acts as transcriptional repressor and plays a role in gene silencing (PubMed:<a href="http://www.uniprot.org/citations/10947852" target="\_blank">10947852</a>, PubMed:<a href="http://www.uniprot.org/citations/18644863" target="\_blank">18644863</a>). Does not bind to methylated DNA by itself (PubMed:<a href="http://www.uniprot.org/citations/12124384" target="\_blank">12124384</a>, PubMed:<a href="http://www.uniprot.org/citations/16428440" target="\_blank">16428440</a>). Binds to a lesser degree DNA containing unmethylated CpG dinucleotides (PubMed:<a href="http://www.uniprot.org/citations/24307175" target="\_blank">24307175</a>). Recruits histone deacetylases and DNA methyltransferases.

### Cellular Location

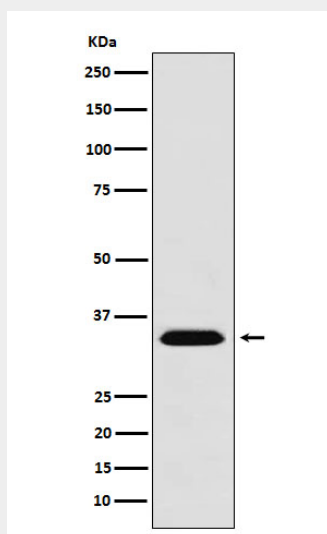
Nucleus. Chromosome. Note=Nuclear, in discrete foci. Detected on chromatin, at promoter regions of active genes

### Anti-MBD3 Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Anti-MBD3 Monoclonal Antibody - Images



Western blot analysis of MBD3 expression in 293T cell lysate.