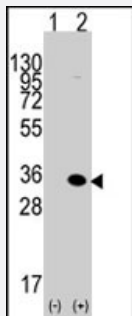


MBD3 polyclonal antibody

Catalog # PAB2214

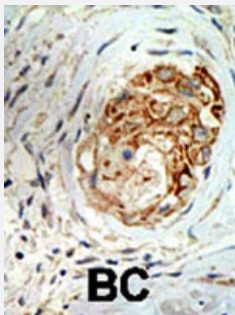
Size 400 uL

Applications



Western Blot (Transfected lysate)

Western blot analysis of MBD3 (arrow) using rabbit MBD3 polyclonal antibody (Cat # PAB2214). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the MBD3 gene (Lane 2) (Origene Technologies).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human cancer tissue reacted with the MBD3 polyclonal antibody (Cat # PAB2214), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of MBD3.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to residues surrounding E279 of human MBD3.
Host	Rabbit
Reactivity	Human, Mouse
Form	Liquid
Purification	Ammonium sulfate precipitation

Recommend Usage	Western Blot (1:1000) Immunohistochemistry (1:50-100) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

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Gene Info — MBD3

Entrez GeneID	53615
Protein Accession#	O95983
Gene Name	MBD3
Gene Alias	-
Gene Description	methyl-CpG binding domain protein 3
Omim ID	603573
Gene Ontology	Hyperlink

Gene Summary

DNA methylation is the major modification of eukaryotic genomes and plays an essential role in mammalian development. Human proteins MECP2, MBD1, MBD2, MBD3, and MBD4 comprise a family of nuclear proteins related by the presence in each of a methyl-CpG binding domain (MBD). However, unlike the other family members, MBD3 is not capable of binding to methylated DNA. The predicted MBD3 protein shares 71% and 94% identity with MBD2 (isoform 1) and mouse Mbd3. MBD3 is a subunit of the NuRD, a multisubunit complex containing nucleosome remodeling and histone deacetylase activities. MBD3 mediates the association of metastasis-associated protein 2 (MTA2) with the core histone deacetylase complex. [provided by RefSeq]

Other Designations

-

Publication Reference

- [Biphasic kinetics of the human DNA repair protein MED1 \(MBD4\), a mismatch-specific DNA N-glycosylase.](#)

Petronzelli F, Riccio A, Markham GD, Seeholzer SH, Stoerker J, Genuardi M, Yeung AT, Matsumoto Y, Bellacosa A.
The Journal of Biological Chemistry 2000 Oct; 275(42):32422.

- [A mammalian protein with specific demethylase activity for mCpG DNA.](#)

Bhattacharya SK, Ramchandani S, Cervoni N, Szyf M.
Nature 1999 Feb; 397(6720):579.

- [Identification and characterization of a family of mammalian methyl-CpG binding proteins.](#)

Hendrich B, Bird A.
Molecular and Cellular Biology 1998 Nov; 18(11):6538.

Application: Band shift assay, Recombinant protein