Product Name: MBD3 Rabbit Polyclonal Antibody
Catalog #: APRab13684
For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	WB,IHC,ELISA
Reactivity	Human,Mouse
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2000,IHC 1:50-1:300,ELISA 1:2000-1:20000
Molecular Weight	33kDa

Antigen Information

Gene Name	MBD3
Alternative Names	MBD3; Methyl-CpG-binding domain protein 3; Methyl-CpG-binding protein MBD3
Gene ID	53615.0
SwissProt ID	O95983
Immunogen	The antiserum was produced against synthesized peptide derived from human MBD3. AA range:221-270

Background

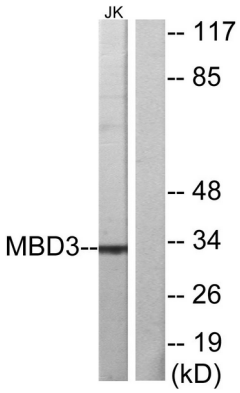
DNA methylation is the major modification of eukaryotic genomes and plays an essential role in mammalian development. This

gene belongs to a family of nuclear proteins which are characterized by the presence of a methyl-CpG binding domain (MBD). The encoded protein is a subunit of the NuRD, a multisubunit complex containing nucleosome remodeling and histone deacetylase activities. Unlike the other family members, the encoded protein is not capable of binding to methylated DNA. The protein mediates the association of metastasis-associated protein 2 with the core histone deacetylase complex. Alternative splicing results in multiple transcript variants of this gene. [provided by RefSeq, Jul 2013],function:Does not bind DNA by itself. Recruits histone deacetylases and DNA methyltransferases. Acts as transcriptional repressor and plays a role in gene silencing.,similarity:Contains 1 MBD (methyl-CpG-binding) domain.,subcellular location:Nuclear, in discrete foci.,subunit:Heterodimer with MBD2. Part of the NuRD and the MeCP1 complex. Binds HDAC1, MTA2, DNMT1, p66-alpha and p66-beta.,

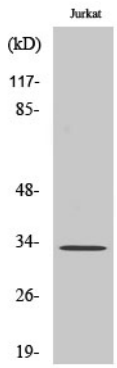
Research Area

Epigenetics and Nuclear Signaling

Image Data



Western blot analysis of lysates from Jurkat cells, using MBD3 Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of various cells using MBD3 Polyclonal Antibody