Recombinant DGRmAb®

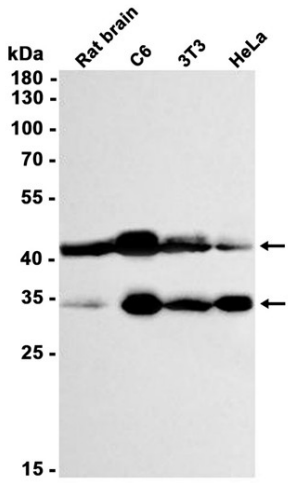
MBD2 (DGR14399) Rabbit mAb

db11623 **Package : 10μL 20μL 50μL 100μL**

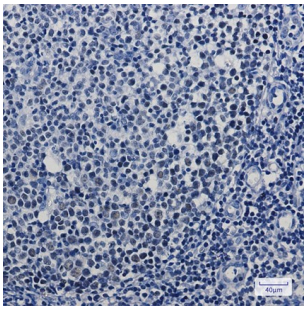
Product Name : MBD2 (DGR14399) Rabbit mAb
Cat.No.: db11623
Synonyms : DMTase; NY-CO-41
Application : WB, IHC, ICC/IF, FC, IP
Reactivity : Human, Mouse, Rat
Host species : Rabbit

Background	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). Each of these proteins, with the exception of MBD3, is capable of binding specifically to methylated DNA. MECP2, MBD1 and MBD2 can also repress transcription from methylated gene promoters. The protein encoded by this gene may function as a mediator of the biological consequences of the methylation signal. It is also reported that the this protein functions as a demethylase to activate transcription, as DNA methylation causes gene silencing. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2011]
Immunogen	A synthetic peptide of human MBD2
Gene ID	8932
Swiss Prot	Q9UBB5
Synonyms	DMTase; NY-CO-41
Reactivity	Human, Mouse, Rat
Application	WB, IHC, ICC/IF, FC, IP
Recommended dilution	WB: 1:1000 IHC: 1:20-1:500 ICC/IF: 1:100 FC: 1:20 IP: 1:20
Calculated MW	43 kDa
Observed MW	43 kDa
Host species	Rabbit

Clonality	Monoclonal
Clonality No.	DGR14399
Isotype	IgG
Purity	Affinity Purification
Conjugation	Un-conjugated
Storage Stability	Store at -20°C. Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% sodium azide and 0.05% BSA. Stable for 12 months from date of receipt.



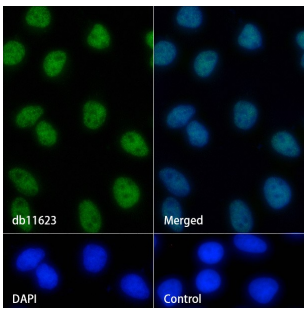
Western blot analysis of extracts from C6, 3T3, HeLa cells and Rat brain tissue using db11623 at 1:1000.



Immunohistochemical analysis of paraffin-embedded human tonsil using db11623 antibody.



Immunofluorescent analysis of HL-60 cells using db11623 antibody (green), and DAPI (blue).



Immunofluorescence analysis of HeLa cells labelling MBD2 with db11623.

The cells were fixed with 4% PFA (10min, RT) followed by treatment with 0.1% Triton X-100 (10min, RT), and blocked in 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween 20 for 1h. The cells were then incubate with db11623 (1:100) at room temprature for 1h, followed by a further incubation at room temperature for 45min with Goat Anti Rabbit IgG (H+L)-AF488 (db10005, shown in green). Nuclear DNA was labeled in blue with DAPI.

Control: Secondary antibody only.