ELK Biotechnology

MeCP2 rabbit pAb

Cat No.:ES20671

For research use only

Overview

Product Name	MeCP2 rabbit pAb
Host species	Rabbit
Applications	WB
Species Cross-Reactivity	Human
Recommended dilutions	WB: 1:2000
Immunogen	Synthetic Peptide of MeCP2 AA range: 313-363
Specificity	The antibody detects endogenous MeCP2 proteins.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	Methyl-CpG-binding protein 2
Gene Name	MECP2
Cellular localization	Nucleus . Colocalized with methyl-CpG in the genome. Colocalized with TBL1X to the heterochromatin foci. .
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Concentration	
Observed band	53kD
Human Gene ID	4204
Human Swiss-Prot Number	P51608
Alternative Names	Methyl-CpG-binding protein 2 (MeCp-2 protein) (MeCp2)
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.

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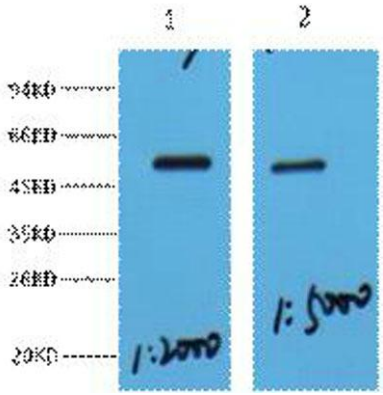
MECP2, MBD1 and MBD2 can also repress transcription from methylated gene promoters. In contrast to other MBD family members, MECP2 is X-linked and subject to X inactivation. MECP2 is dispensible in stem cells, but is essential for embryonic development. MECP2 gene mutations are the cause of most cases of Rett syndrome, a progressive neurologic developmental disorder and one of the most common causes of mental retardation in females. Alternative splicing results in multiple transcript variants encoding different isofor



Western blot analysis of Hela, diluted at 1) 1:2000 2) 1:5000. Secondary antibody(catalog#:RS0002) was diluted at 1:20000

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