

MECP2

Reactivity: Human Mouse Rat

Tested applications: WB IHC IF

Recommended Dilution: WB 1:500 - 1:2000 IHC 1:100 - 1:200 IF 1:50 - 1:200

Calculated MW: 52kDa

Observed MW: Refer to Figures

Immunogen:

A synthetic peptide of human MECP2

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Concentration:

fj

Synonym:

RS; RTS; RTT; PPMX; MRX16; MRX79; MRXSL; AUTSX3; MRXS13;

Catalog #: A5694

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID: 4204

Isotype: IgG

Swiss Prot: P51608

Purity: Affinity purification

For research use only.

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. In contrast to other MBD family members, MECP2 is X-linked and subject to X inactivation. MECP2 is dispensable 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.

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