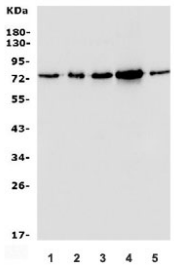
MECP2 Antibody [clone 2G3] (RQ5860)

Catalog No.	Formulation	Size
RQ5860	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1
Clone Name	2G3
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P51608
Applications	Western Blot : 0.5-1ug/ml
Limitations	This MECP2 antibody is available for research use only.



Western blot testing of human 1) U-87 MG, 2) HeLa, 3) K562, 4) HEK293 and 5) PC-3 lysate with MECP2 antibody. Expected molecular weight: ~55 kDa (unmodified) and ~75 kDa (modified).

Description

MECP2 (methyl CpG binding protein 2) is a gene that encodes the protein MECP2. It is mapped to Xq28. 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 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 cognitive disability in females. Alternative splicing results in multiple transcript variants encoding different isoforms.

Application Notes

Optimal dilution of the MECP2 antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids K119-R453) was used as the immunogen for the MECP2 antibody.

Storage

After reconstitution, the MECP2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.