

MeCP2 Polyclonal Antibody

Cat No: HR1AP2266

For research use only

Overview

Product Name	MeCP2 Polyclonal Antibody
Source	Rabbit
Applications	WB
Species Reactivity	Human
Recommended Dilutions	
Immunogen	
Species	Rabbit
Storage	-20°C/1 year
Isotype	
Clonality	
Concentration	
Observed band	53kDa
GeneID?Human?	MECP2
Human Swiss-Prot No.	
Cellular localization	
Alternative Names	Methyl-CpG-binding protein 2 (MeCp-2 protein) (MeCp2)
Background	<p>methyl-CpG binding protein 2(MECP2) Homo sapiens 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 mental retardation in females. Alternative splicing results in multiple transcript variants encoding different isoform</p>