



## **Human MECP2 peptide (DAG-P0841)**

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

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Antı	aen	Desc	ription	1

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. [provided by RefSeq, Jul 2009]

Specificity	Present in all adult somatic tissues tested.	
Purity	70 - 90% by HPLC.	
Conjugate	Unconjugated	
Sequence Similarities	Contains 2 A.T hook DNA-binding domains.Contains 1 MBD (methyl-CpG-binding) domain.	
Format	Liquid	
Preservative	None	
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.	

## **GENE INFORMATION**

Gene Name	MECP2 methyl CpG binding protein 2 (Rett syndrome) [ Homo sapiens (human) ]
Official Symbol	MECP2

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Synonyms	MECP2; methyl CpG binding protein 2 (Rett syndrome); RS; RTS; RTT; PPMX; MRX16; MRX79; MRXSL; AUTSX3; MRXS13; methyl-CpG-binding protein 2; meCp-2 protein;	
Entrez Gene ID	4204	
mRNA Refseq	NM 001110792.1	
Protein Refseq	NP 001104262.1	
UniProt ID	P51608	
Chromosome Location	Xq28	
Pathway	SIDS Susceptibility Pathways, organism-specific biosystem;	
Function	DNA binding; chromatin binding; double-stranded methylated DNA binding; mRNA binding; methyl-CpG binding; poly(A) RNA binding; protein N-terminus binding; protein binding; protein domain specific binding; sequence-specific DNA binding transcription factor	