MECP2 Blocking Peptide

PRODUCT OVERVIEW

Product Name	MECP2, Blocking Peptide
Full Product Name	MECP2 Peptide
Product Gene Name	MECP2 blocking peptide
Product Synonym Gene Name	AUTSX3; DKFZp686A24160; MRX16; MRX79; PPMX; RTS; RTT; RS; MRXSL; MRXS13
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	MECP2 peptide (MBS3231910) is used for blocking the activity of MECP2 antibody (MBS3206945)
Molecular Weight	52kDa
OMIM	105830
Product Categories/Family for MECP2 blocking peptide	Peptide
Applications Tested/Suitable for MECP2 blocking peptide	Western Blot (WB)
Related Product Information for MECP2 blocking peptide	This is a synthetic peptide designed for use in combination with anti-MECP2 antibody made Target Description: 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 some cases of Rett syndrome, a progressive neurologic developmental disorder and one of the most common causes of mental retardation in females.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 some cases of Rett syndrome, a progressive neurologic developmental disorder and one of the most common causes of mental retardation in females.
Other Notes	Small volumes of MECP2 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for MECP2 purchase	MBS3231910 is a blocking peptide targeting MECP2. Also known as MECP2 Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MECP2. It may not necessarily be applicable to this product.

NCBI GI #	4826830
NCBI GeneID	4204
NCBI Accession #	NP_004983

UniProt Primary Accession #	P51608
UniProt Related Accession #	P51608
GenBank Nucleotide #	NM_004992
NCBI Official Full Name	methyl-CpG-binding protein 2 isoform 1
NCBI Official Synonym Full Names	methyl-CpG binding protein 2
NCBI Official Symbol	MECP2
NCBI Official Synonym Symbols	RS; RTS; RTT; PPMX; MRX16; MRX79; MRXSL; AUTSX3; MRXS13
UniProt Protein Name	Methyl-CpG-binding protein 2
Protein Family	Methyl-CpG-binding protein
UniProt Gene Name	MECP2
UniProt Synonym Gene Names	MeCp-2 protein; MeCp2
UniProt Entry Name	MECP2_HUMAN
NCBI Protein Information	methyl-CpG-binding protein 2
NCBI Summary for MECP2	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. [provided by RefSeq, Oct 2015]
Research Articles on MECP2	**1.** Mutations in the X-linked gene MECP2 were identified as the main cause of the Rett syndrome - severe progressive Developmental disorder that almost exclusively affects females.
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