# MeCP2 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | MeCP2, Polyclonal Antibody |
| **Full Product Name** | MeCP2, NT (MECP2, Methyl-CpG-binding protein 2) (MaxLight 550) |
| **Product Gene Name** | anti-MeCP2 antibody |
| **Product Synonym Names** | MECP2; Methyl-CpG-binding protein 2 |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550. |
| **Purity/Purification** | Purified by Protein G Affinity Chromatography. |
| **Preparation and Storage** | Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap. |
| **Molecular Weight** | 486 |
| **Chromosome Location** | Chromosome: X; NC_000023.10 (153287025..153363188, complement). Location: Xq28 |
| **OMIM** | 105830 |
| **3D Structure** | ModBase 3D Structure for P51608 |
| **Immunogen** | MeCP2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 3~33 amino acids from the N-terminal region of human MeCP2. |
| **Conjugate** | MaxLight550 |
| **Note** | Preservative Free |
| **Product Categories/Family for anti-MeCP2 antibody** | Antibodies; Binding Proteins |
| **Applications Tested/Suitable for anti-MeCP2 antibody** | Flow Cytometry (FC/FACS), FLISA, Western Blot (WB) |
| **Application Notes for anti-MeCP2 antibody** | FC/FACS: 1:10-50<br>FLISA: 1:1,000<br>WB: 1:50-100<br>Applications are based on unconjugated antibody. |
| **Related Product Information for anti-MeCP2 antibody** | 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. |

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| **Product References and Citations for anti-MeCP2 antibody** | dos Santos, J.M., et al., Neurosci. Lett. 379(1):13-16 (2005). Ylisaukko-Oja, T., et al., Am J Med Genet A 132(2):121-124 (2005). Schanen, C., et al., Am J Med Genet A 126(2):129-140 (2004). Shibayama, A., et al., Am. J. Med. Genet. B Neuropsychiatr. Genet. 128(1):50-53 (2004). Fang, J.Y., et al., World J. Gastroenterol. 10(23):3394-3398 (2004). |
| **Other Notes** | Small volumes of anti-MeCP2 antibody 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** | MBS6319909 is an antibody targeting MeCP2. Also known as MeCP2, NT (MECP2, Methyl-CpG-binding protein 2) (MaxLight 550). Reactive in Human. Host: Rabbit. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MeCP2. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 160707950 |
| **NCBI GeneID** | 4204 |
| **NCBI Accession #** | NP_001104262.1 |
| **UniProt Primary Accession #** | P51608 |
| **UniProt Secondary Accession #** | O15233; Q6QHH9; Q7Z384 |
| **UniProt Related Accession #** | P51608 |
| **GenBank Nucleotide #** | NM_001110792.1 |
| **NCBI Official Full Name** | methyl-CpG-binding protein 2 isoform 2 |
| **NCBI Official Synonym Full Names** | methyl CpG binding protein 2 (Rett syndrome) |
| **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; meCp-2 protein |
| **Precautions** | All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines. |
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