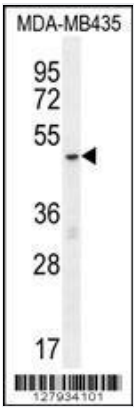
MeCP2 Antibody – Rabbit Polyclonal

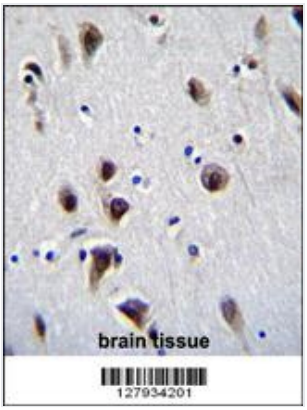
PRODUCT OVERVIEW

Product Name	MeCP2, Polyclonal Antibody
Full Product Name	MeCP2, NT (S80) (MECP2, Methyl-CpG-binding protein 2) (Azide free) (HRP)
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 Horseradish Peroxidase (HRP).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. For maximum recovery of product, centrifuge the original vial after thawing and 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 selected from the N-terminal region of human MeCP2.
Conjugate	HRP
Note	Preservative Free
Product Categories/Family for anti-MeCP2 antibody	Antibodies; Binding Proteins
Applications Tested/Suitable for anti-MeCP2 antibody	Immunohistochemistry (IHC), ELISA (EIA), Western Blot (WB)
Application Notes for anti-MeCP2 antibody	IHC: 1:50-100 ELISA: 1:1,000 WB: 1:100-500 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 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].

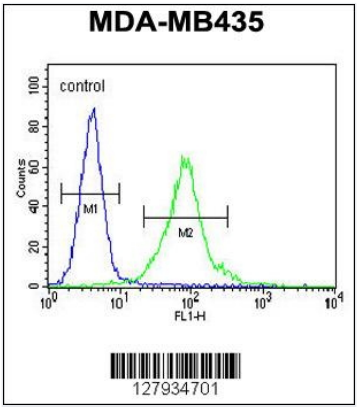
Product References and Citations for anti-MeCP2 antibody	Shapiro, J.R., et al. Pediatr. Res. 68(5):446-451(2010). Pintaudi, M., et al. Epilepsy Behav (2010). In press: Jain, D., et al. Pediatr. Neurol. 43(1):35-40(2010). Harvey, C.G., et al. Am. J. Med. Genet. B Neuropsychiatr. Genet. 144B (3), 355-360 (2007): Francke, U. Nat Clin Pract Neurol 2(4):212-221(2006).
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	MBS6319917 is an antibody targeting MeCP2. Also known as MeCP2, NT (S80) (MECP2, Methyl-CpG-binding protein 2) (Azide free) (HRP). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-MeCP2 antibody
MeCP2 Antibody (pS80) western blot analysis in MDA-MB435 cell line lysates (35ug/lane).This demonstrates the MeCP2 antibody detected the MeCP2 protein (arrow).



Immunohistochemistry (IHC) of anti-MeCP2 antibody
MeCP2 Antibody (N-term S80) immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of MeCP2 Antibody (N-term S80) for immunohistochemistry. Clinical relevance has not been evaluated.



Flow Cytometry (FC/FACS) of anti-MeCP2 antibody
MeCP2 Antibody (N-term S80) flow cytometric analysis of MDA-MB435 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ADDITIONAL DETAILS

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

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
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