

Rabbit Phospho-MeCP2 (S80) Polyclonal Antibody | anti-MECP2 antibody

Phospho-MeCP2 (S80) Antibody

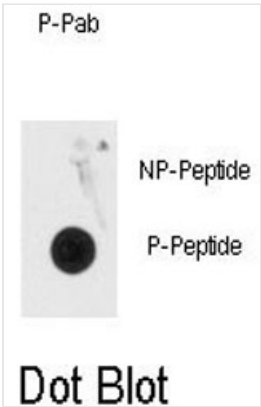
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA285391	Rabbit	Human (Predicted Reactivity: Monkey, Mouse, Rat)	ELISA, Dot Blot

PRODUCT SYNONYMS

Phospho-MeCP2 (S80); Polyclonal Antibody; Phospho-MeCP2 (S80) Antibody; Methyl-CpG-binding protein 2; MeCp-2 protein; MeCp2; MECP2; anti-MECP2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human (Predicted Reactivity: Monkey, Mouse, Rat)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This MeCP2 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding S80 of human MeCP2.
Purity/Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Concentration	Vial Concentration: 0.31 (varies by lot)
Sequence Length	498
Applicable Applications for anti-MECP2 antibody	ELISA, DB (Dot Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Cellular Location	Nucleus {ECO:0000250 UniProtKB:Q9Z2D6}. Note: Colocalized with methyl-CpG in the genome. Colocalized with TBL1X to the heterochromatin foci. Tissue Location
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.



DB (Dot Blot)
Dot blot analysis of anti-Phospho-MECP2-pS80 Antibody on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.5ug per ml.

ADDITIONAL INFORMATION

Related Product Information for anti-MECP2 antibody	Chromosomal protein that binds to methylated DNA. It can bind specifically to a single methyl-CpG pair. It is not influenced by sequences flanking the methyl-CpGs. Mediates transcriptional repression through interaction with histone deacetylase and the corepressor SIN3A. Binds both 5-methylcytosine (5mC) and 5-hydroxymethylcytosine (5hmC)- containing DNA, with a preference for 5-methylcytosine (5mC). 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.
Product Categories/Family for anti-MECP2 antibody	Neuroscience; Phospho Antibodies
References	Mnatzakanian, G.N., et al., Nat. Genet. 36(4):339-341 (2004). Laccone, F., et al., Hum. Mutat. 23(3):234-244 (2004). Suzuki, M., et al., Oncogene 22(54):8688-8698 (2003). Balmer, D., et al., J. Mol. Med. 81(1):61-68 (2003). Hagberg, B., et al., Eur. J. Paediatr. Neurol. 7(6):417-421 (2003).

NCBI AND UNIPROT INFORMATION

NCBI GI #	160707950
NCBI GeneID	4204
NCBI Accession #	NP_001104262.1; NP_004983.1
NCBI GenBank Nucleotide #	NM_001110792.1
UniProt Accession #	P51608; O15233; Q6QHH9; Q7Z384
Molecular Weight	52441
NCBI Official Full Name	methyl-CpG-binding protein 2 isoform 2
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
NCBI Protein Information	methyl-CpG-binding protein 2
UniProt Protein Name	Methyl-CpG-binding protein 2
UniProt Gene Name	MECP2
UniProt Synonym Gene Names	MeCp-2 protein; MeCp2
UniProt Entry Name	MECP2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/phospho-mecp2-s80-antibody-dot-blot-elisa/285391>