

Rabbit MeCP2 Polyclonal Antibody | anti-MeCP2 antibody

Phospho-MeCP2(Ser80) Antibody

CATALOG # AAA321417	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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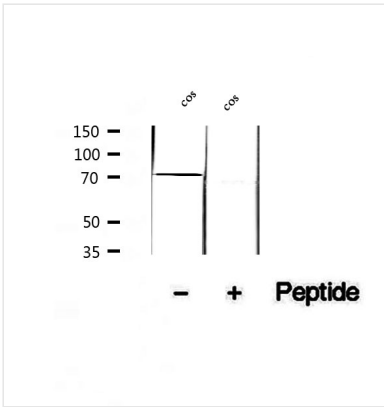
PRODUCT SYNONYMS

MeCP2; Polyclonal Antibody; Phospho-MeCP2(Ser80) Antibody; AUTSX 3; AUTSX3; DKFZp686A24160; Mbd 5; Mbd5; MECP 2; MeCP 2 protein; MeCP-2 protein; Mecp2; MECP2_HUMAN; Methyl CpG binding protein 2 (Rett syndrome); Methyl CpG binding protein 2; Methyl-CpG-binding protein 2; MRX 16; MRX 79; MRX16; MRX79; MRXS 13; MRXS13; MRXSL; PPMX; RS; RTS; RTT; WBP 10; WBP10; anti-MeCP2 antibody

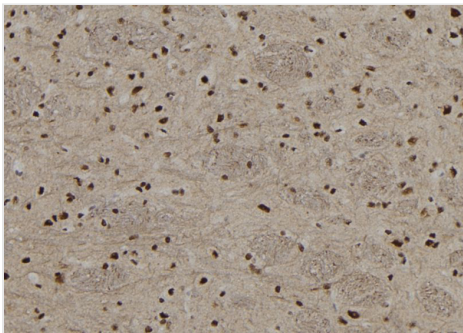
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-MeCP2(Ser80) antibody detects endogenous levels of MeCP2.
Purity/Purification	From purified rabbit serum by affinity purification via sequential chromatography on phospho-and non-phospho-peptide affinity columns.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	498
Applicable Applications for anti-MeCP2 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human MeCP2 around the phosphorylation site of Ser80.
Subcellular Location	Nucleus. Colocalized with methyl-CpG in the genome.
Tissue Specificity	Present in all adult somatic tissues tested.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Xenopus
Similarity	Pig (100%), Zebrafish (83%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Xenopus (92%)
Conjugation	Unconjugated
Epitope	Phospho Ser80
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)
Western blot analysis of extracts of cos cells, using Phospho-MeCP2(Ser80) Antibody.



IHC (Immunohistochemistry)
AAA321417 at 1/100 staining Rat brain tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-MeCP2 antibody	Function: 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). Subunit Structure: Interacts with FNBP3 (By similarity). Interacts with CDKL5 (PubMed:15917271). Interacts with ATRX; MECP2 recruits ATRX to pericentric heterochromatin in neuronal cells (By similarity). Interacts with NCOR2 (By similarity). Interacts with TBL1XR1; bridges interaction between MECP2 and NCOR1 (PubMed:28348241). Interacts with TBL1X; recruits TBL1X to the heterochromatin foci (PubMed:28348241). Post-translational Modifications: Phosphorylated on Ser-423 in brain upon synaptic activity, which attenuates its repressor activity and seems to regulate dendritic growth and spine maturation.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	160707950
NCBI GeneID	4204
NCBI Accession #	NP_001104262.1
NCBI GenBank Nucleotide #	NM_001110792.1
UniProt Accession #	P51608; O15233; Q6QHH9; Q7Z384
Molecular Weight	Observed: 75 kDa Predicted: 53 kDa
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

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.

