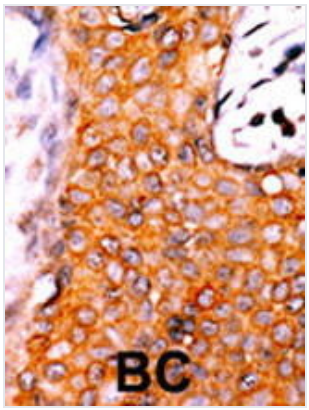
MECP2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MECP2, Polyclonal Antibody
Full Product Name	MECP2, Phosphorylated (Ser292) (Methyl-CpG-binding Protein 2, MeCP-2 Protein, MeCP2) (AP)
Product Gene Name	anti-MECP2 antibody
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 Alkaline Phosphatase (AP).
Purity/Purification	Purified by Protein G Affinity Chromatography.
Specificity	Recognizes human MECP2 when phosphorylated at Ser292.
Preparation and Storage	Store product at 4 degree C. 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. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	53,323 Da
OMIM	105830
3D Structure	ModBase 3D Structure for P51608
Immunogen	Synthetic phosphopeptide corresponding to amino acid residues surrounding pSer292 of human MECP2, conjugated to KLH.
Conjugate	AP
Antigen Modification	Phosphorylated
Note	Preservative Free
Product Categories/Family for anti-MECP2 antibody	Antibodies; Binding Proteins
Applications Tested/Suitable for anti-MECP2 antibody	Immunohistochemistry (IHC), ELISA (EIA)
Application Notes for anti-MECP2 antibody	IHC: 1:50-1:100 ELISA: 1:1000 Applications are based on unconjugated antibody.
Related Product Information for anti-MECP2 antibody	MBS6487425 is an antibody targeting MECP2. Also known as MECP2, Phosphorylated (Ser292) (Methyl-CpG-binding Protein 2, MeCP-2 Protein, MeCP2) (AP). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-MECP2 antibody	1. Mnatzakanian, G.N., et al., Nat. Genet. 36(4):339-341 (2004). 2. Laccone, F., et al., Hum. Mutat. 23(3):234-244 (2004). 3. Suzuki, M., et al., Oncogene 22(54):8688-8698 (2003). 4. Balmer, D., et al., J. Mol. Med. 81(1):61-68 (2003). 5. Hagberg, B., et al., Eur. J. Paediatr. Neurol. 7(6):417-421 (2003).
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.



Immunohistochemistry (IHC) of anti-MECP2 antibody
Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

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 Secondary Accession #	O15233; Q6QHH9; Q7Z384
UniProt Related Accession #	P51608
GenBank Nucleotide #	NM_004992.3
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 mental retardation in females. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Oct 2015]

Research Articles on MECP2	**1.** MeCP2 is expressed throughout the gastrointestinal tract (GI). MeCP2 is expressed specifically in the enteric nervous system of the GI.
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