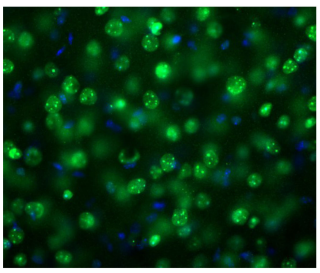
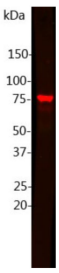
Rabbit antibody to human methyl-CpG binding protein 2 (MeCP2), (471-486): affinity purified

Catalogue No.:	R-1810-100
Description:	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). Ref: uniprot.org
Batch No.:	See product label.
Unit size:	100 ug
Antigen:	A synthetic peptide (REEPVDSRTPVTERVS, aa: 471-486) of C-terminus of human protein.
Other Names:	MeCp-2 protein; MeCp2
Accession:	P51608 (MECP2_HUMAN)
Produced in:	Rabbit
Purity:	Affinity purified
Applications:	Western blotting (1:1,000-1:5,000) and Immunohistochemistry (1:1,000) Biosensis recommends optimal dilutions/concentrations should be determined by the end user.
Specificity:	Reacts with human, mouse, rat.
Form:	Lyophilised from a solution containing PBS buffer pH 7.2-7.6 with 5 mM sodium azide as preservative.
Reconstitution:	Spin vial briefly before opening. Reconstitute in 100 uL sterile water. Centrifuge to remove any insoluble material. Final buffer contains preservatives.
Storage:	Store lyophilised antibody at 2-8C. After reconstitution divide into aliquots and store at -20C for long-term storage. Store at 2-8C short-term (up to 4 weeks). Avoid repetitive freeze/thaw cycles.
Expiry Date:	12 months after purchase if unopened.





Left: Staining of mouse brain section with rabbit antibody to MeCP2 (green) by Immunohistochemistry. MeCP2 is mainly associated with methylated DNA in nucleus of neuronal cells. Blue: DAPI nuclear stain. IHC method: Following transcardial perfusion of mouse with 4% paraformaldehyde, brain was post fixed overnight and cut to 45 uM. Right: Western blot analysis of MeCP2 expression in nuclear extracts from mouse brain. This antibody recognizes a strong and clear band at 74 kDa corresponding to MeCP2. The molecular weight of MeCP2 is 52 KDa, however, on SDS-PAGE this protein migrates slower due to its unusual high positive charge density.

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