

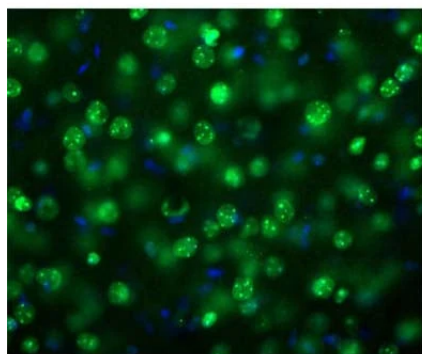
Anti-Methyl-CpG- binding protein 2 (MeCP2) Antibody



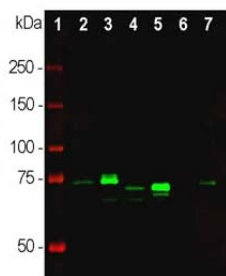
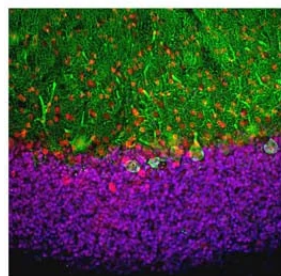
Product Details

Available Variants	100 µg (SKU:R-1810-100)
Conjugate	Unconjugated
Isotype	IgG
Host Species	Rabbit
Format	Affinity purified
Physical State	Lyophilized
Buffer	Lyophilized from PBS buffer pH 7.2-7.6 with 0.1% trehalose, and sodium azide
Applications	IHC, WB
Dilution Ranges	WB: 1:1000-1:5000 IHC: 1:1000
Species Reactivity	Human, Mouse, Rat
Immunogen	A synthetic peptide (REEPVDSRTPVTERVS, aa: 471-486) of C-terminus of human protein.
Specificity	Reacts with human, mouse, rat.
Storage	Spin vial briefly before opening. Reconstitute with 100 µL sterile-filtered, ultrapure water. Centrifuge to remove any insoluble material. Store lyophilized antibody at 2-8°C. After reconstitution divide into aliquots and store at -20°C for long-term storage. Store at 2-8°C short-term (up to 4 weeks) with an appropriate antibacterial agent. Avoid repetitive freeze/thaw cycles.
UniProt ID	P51608
Country of Origin	United States
Shipping	25°C (ambient)
Expiration	12 months after date of receipt (unopened vial).

Product Images



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 μ m. 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.



Left: Analysis of rat cerebellum with rabbit anti-MeCP2 (red, 1:5,000) and chicken anti-calbindin (C-1798-50, green, 1:2,000) by **Immunohistochemistry**. Blue: DAPI nuclear stain. **IHC Method:** Following transcardial perfusion with 4% paraformaldehyde, brain was post fixed for 24 hours, cut to 45 μ m, and free-floating sections were stained. The MeCP2 antibody selectively stains nuclei of neuronal cells. Calbindin, often used as Purkinje cell marker, is prominently expressed in dendrites and perikarya of these cells in the cerebellar molecular layer. **Right: Western blot** analysis of tissue and cell lysates using rabbit anti-MeCP2 (1:20,000). [2] rat whole brain, [3] nuclear fraction of rat brain, [4] mouse whole brain, [5] nuclear fraction of mouse brain, [6] HeLa cells, [7] C6 cells. Major band at about 70-75 kDa corresponds to MeCP2 protein, predominantly detected in the nuclear fraction of the lysates. The apparent molecular weights of MeCP2 based on SDS-PAGE mobility are variable between species and higher than the actual MeCP2 molecular weight of ~54 kDa.

