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PRODUCT DATASHEET

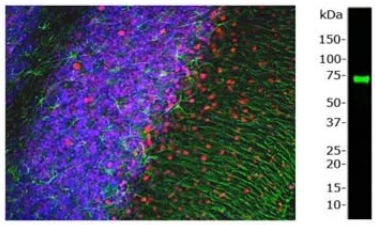
Anti-Methyl-CpG binding protein 2 (MeCP2) Antibody

Product Details

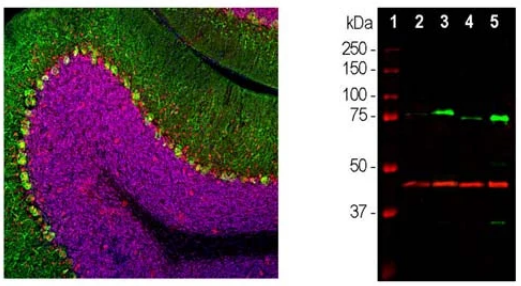
Available Variants	100 µg (SKU:M-1809-100)
Conjugate	Unconjugated
Isotype	IgG1
Clone	4F11
Host Species	Mouse
Format	Affinity-purified
Physical State	Lyophilized
Buffer	Lyophilized from PBS buffer pH 7.2-7.6 with 0.1% trehalose, and sodium azide.
Production Notes	Protein G purified
Applications	IHC, WB
Dilution Ranges	WB: 1:5000-1:10000 IHC: 1:1000-1:5000
Species Reactivity	Human, Mouse, Rat
Immunogen	Full-length recombinant human protein
Specificity	Reacts with human, mouse, rat.
Storage	Spin vial briefly before opening. Reconstitute with 100 µL sterile-filtered, ultrapure water to achieve a 1 mg/mL concentration. 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).
Usage Statement	For research use only.

Product Images



Left: Staining of rat cerebellum section with mouse antibody to MeCP2 (1:500, red) and rabbit antibody to GFAP (R-1374-50, 1:5,000, green) by **Immunohistochemistry**. While MeCP2 is specifically expressed in nuclei of neuron cells, the GFAP antibody stains the network of glial cells. Blue: DAPI nuclear stain. IHC method: Following transcardial perfusion of rat with 4% paraformaldehyde, brain was post fixed for 1 hour, cut to 45 uM, and free-floating sections were stained with above antibodies. 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: Rat cerebellum stained with mouse anti-MeCP2 (red, 1:500) and chicken anti-calbindin (C-1798-50, green, 1:2,000) by **Immunohistochemistry**. Blue: DAPI nuclear stain. *IHC Method*: Following transcardial perfusion of rat with 4% paraformaldehyde, brain was post fixed for 1 hour, cut to 45 um, and free-floating sections were stained. The MeCP2 antibody specifically labels nuclei of neuronal cells to a variable extent, while calbindin is expressed in the dendrites and perikarya of Purkinje cells in the molecular layer of cerebellum. **Right: Western blot** analysis with mouse anti-MeCP2 (green, 1:1,000) and chicken anti-GAP43 (red). (2) rat whole brain, (3) nuclear fraction of rat brain, (4) mouse whole brain, (5) nuclear fraction of mouse brain. A strong band at about 75 kDa is observed in rat and slightly lower in mouse nuclear enriched fractions, corresponding to MeCP2 protein. GAP43 protein is detected in all preparations with apparent molecular weight of 43 kDa.