

Anti-Calbindin-binding protein Antibody

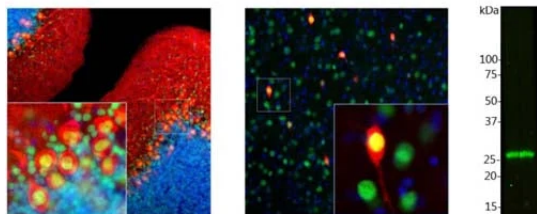


Product Details

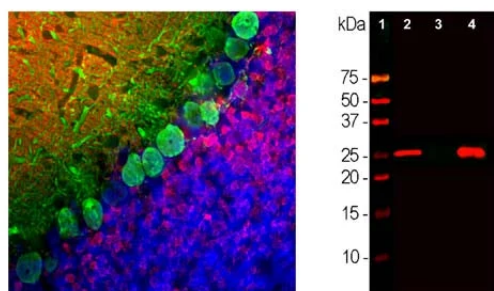
Available Variants	100 µg (SKU:M-1797-100)
Conjugate	Unconjugated
Isotype	IgG1
Clone	4H7
Host Species	Mouse
Format	Affinity-purified
Physical State	Lyophilized
Buffer	Lyophilized from PBS buffer pH 7.2-7.6 with 0.1% trehalose, and sodium azide.
Production Notes	Protein G purified
Applications	IHC, WB
Dilution Ranges	WB: 1:1000-1:5000 IHC: 1:1000
Species Reactivity	Bovine, Chicken, Horse, Human, Mouse, Pig, Rat
Immunogen	Full-length recombinant human protein
Specificity	Reacts with human, horse, cow, pig, chicken, rat, mouse.
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	P05937
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 and middle: Detection of calbindin immunoreactivity in rat brain cerebellum (Left) and cortex (Middle) sections by **Immunohistochemistry**. Calbindin (red) is predominantly expressed in the dendrites and perikarya of Purkinje cells in the molecular layer of cerebellum (left), and selectively expressed in certain type of interneurons (calbindin-positive interneuron) in the cortex (middle). Methyl-CpG binding protein 2 (Rabbit anti-MeCP2, R-1810-100, green) is universally expressed in the nuclei of almost all neurons. As a result, double-immunofluorescence shows that calbindin-expressing cell somas appear red, but the nucleus appears to be yellow. Blue: DAPI nuclear stain. Insets represent high magnification images of the boxed areas. IHC method: 45 μ m sections, fixed by transcardial perfusion with 4% paraformaldehyde. Right: **Western blot** analysis of calbindin expression in cow cerebellum homogenate. The antibody shows strong immunoreactivity with one calbindin band at ~30 kDa.



Left: Rat brain cerebellum stained with mouse anti-calbindin (green, 1:1,000) and rabbit anti-calretinin (R-1800-50, red, 1:5,000) 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. Calbindin antibody prominently labels the dendrites and perikarya of Purkinje cells in the molecular layer of cerebellum. In contrast, the calretinin antibody stains granule cells, in the granular layer, and their processes in the molecular layer. **Right: Western blot** analysis of calbindin expression (antibody dilution: 1:2,000) in rat cerebellum (2), pig hippocampus (3), and cow cerebellum (4). The band at ~25 kDa corresponds to calbindin protein, heavily expressed in the cerebellum, but less in hippocampus.



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