

Anti-Calretinin-binding protein (CR) Antibody

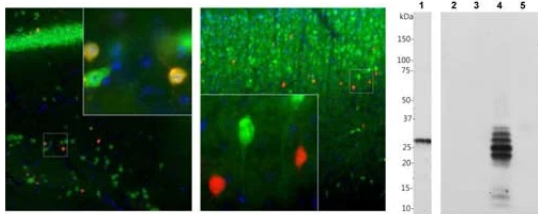


Product Details

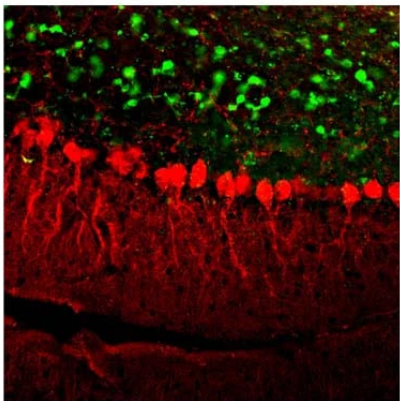
Available Variants	100 µg (SKU:M-1799-100)
Conjugate	Unconjugated
Isotype	IgG1
Clone	3G9
Host Species	Mouse
Format	Affinity-purified
Physical State	Lyophilized
Buffer	Lyophilized from PBS buffer pH 7.2-7.6 with 0.1% trehalose, and sodium azide.
Production Notes	Protein G purified
Applications	IHC, WB
Dilution Ranges	WB: 1:1000-1:5000 IHC: 1:1000
Species Reactivity	Bovine, Human, Mouse, Rat
Immunogen	Full-length recombinant human protein
Specificity	Reacts with human, Cow, rat, mouse. Antibody is specific for calbindin and does not recognize closely related proteins parvalbumin, calretinin and secretagoin as determined by Western Blotting.
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	<u>P22676</u>

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 calretinin immunoreactivity (red) in adult mouse brain hippocampal sections (Left) and adult rat cortical sections (Middle) by **Immunohistochemistry**. The calretinin antibody (1:1,000) stains a small number of interneurons in the stratum radiatum of CA1 region (Left), while Fox/NeuN (R-3770-100, green) is expressed in most neurons in the brain. As a result, co-labelled neurons that stain positive for calretinin appear yellow. In rat cortex (Right), calretinin (red) is expressed in a small population of interneurons concentrated in Layer 4 area, while calbindin (C-1798-50, green) is expressed in cells concentrated in Layer 2/3. Because each antibody specifically labels a different population of cells exclusively, the cells are either stained green or red in the cortex. Blue: DAPI nuclear stain. Insets are high-magnification images of the boxed area in each picture. IHC method: 45 um sections, tissue fixed by transcardial perfusion with 4% paraformaldehyde. Right: **Western blot** analysis of calretinin. The antibody binds strongly and cleanly to a calretinin band at ~32 kDa in cow cerebellum homogenate (Lane 1). Specificity for calretinin and absence of cross-reactivity with other related calcium-binding proteins is shown by probing recombinant proteins: secretagogin (Lane 2), parvalbumin (Lane 3), calretinin (Lane 4), calbindin (Lane 5).



Rat cerebellum stained with mouse anti-calretinin (green, 1:500) and chicken anti-calbindin (C-1798-50, red, 1:2,000) by **Immunohistochemistry**. *IHC Method:* Following transcardial perfusion of rat with 4% paraformaldehyde, brain was post fixed for 24 hours, cut to 45 um, and free-floating sections were stained. The calretinin antibody labels interneurons in the granule cell layer, while the calbindin antibody stains Purkinje neurons and their dendritic processes in the molecular layer of the cerebellum.

Product Page URL: www.antibodiesinc.com/products/anti-calretinin-binding-protein-cr-antibody-m-1799-100



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