

Anti-Calbindin Antibody



Product Details

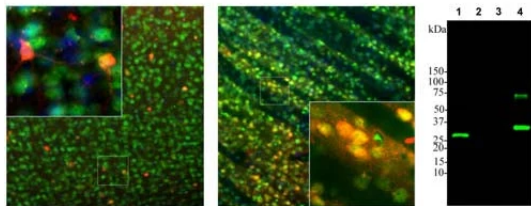
Available Variants	50 µL (SKU:C-1798-50)
Conjugate	Unconjugated
Isotype	IgY
Host Species	Chicken
Format	IgY preparation
Physical State	Lyophilized
Buffer	Lyophilized IgY preparation, with sodium azide.
Applications	IHC, WB
Dilution Ranges	WB: 1:1000-1:5000 IHC: 1:1000-1:5000
Species Reactivity	Bovine, 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 and calretinin as determined by Western Blotting.
Storage	Spin vial briefly before opening. Reconstitute with 50 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	P05937
Country of Origin	United States
Shipping	25°C (ambient)

Expiration

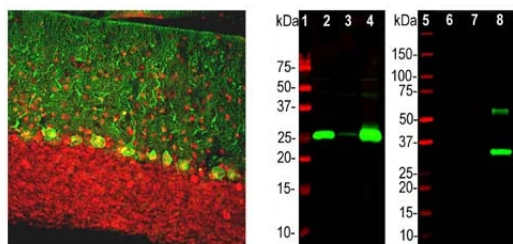
12 months after date of receipt (unopened vial).

Usage Statement

For research use only.

Product Images

Left and Middle: Detection of calbindin-immunoreactivity (red) in adult rat brain cortex (Left) and striatum (Middle) by **Immunohistochemistry**. The calbindin antibody (1:1,000) labels a subset of sparsely-distributed interneurons (calbindin-positive interneurons) in the cortex (Left), and more densely-distributed neurons in the striatum (Middle). Since neurons also express Fox3/NeuN (M-377-100, green), calbindin-positive cells appear yellow. Insets are high magnification images of boxed area of each image. Blue: DAPI nuclear stain. IHC method: 45 um sections, fixed by transcardial perfusion with 4% paraformaldehyde. Right: **Western blot** analysis of calbindin expression in rat brain homogenate (Lane 1). The antibody (1:5,000) detects one single band at ~30 kDa. Specificity for calbindin is shown by probing related His-tagged calcium-binding proteins (Lane 2: Parvalbumin; Lane 3: Calretinin; Lane 4: Calbindin; 0.5 ug protein per lane). One additional band at ~60 kDa (Lane 4) most likely represents calbindin protein dimer.



Left: Analysis of calbindin expression (green, 1:2,000) in rat cerebellum by **Immunohistochemistry**. Sections were co-stained with rabbit anti-MeCP2 (R-1810-100, red, 1:5,000). *IHC Method:* Transcardial perfusion with 4% PFA, post fixation for 24 hours. Sections were cut to 45 um and stained (free-floating). Calbindin, often used as a Purkinje cell marker, is prominently detected in dendrites and perikarya of these cells in the cerebellar molecular layer. The MeCP2 antibody selectively stains nuclei of neuronal cells. **Right:** **Western blot** analysis of rat cerebellum (2), pig hippocampus (3), cow cerebellum (4), parvalbumin (6), calretinin (7), His-tagged calbindin (8). Chicken anti-calbindin (green, 1:5,000) antibody detects calbindin at ~25 kDa in tissue homogenates (2-4). Recombinant human calbindin protein (8) appears at slightly higher molecular weight due to presence of His-tag. The chicken antibody does not cross-react with closely related protein parvalbumin and calretinin.



Created on 12. September 2026 | All information without guarantee