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PRODUCT DATASHEET

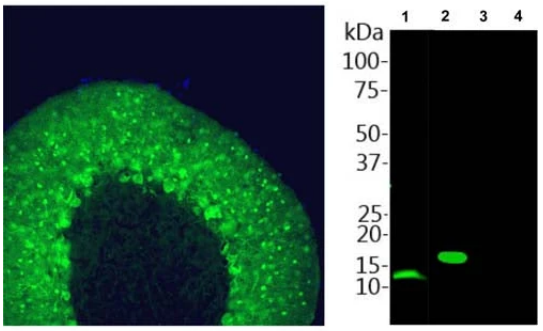
Anti-Parvalbumin Antibody

Product Details

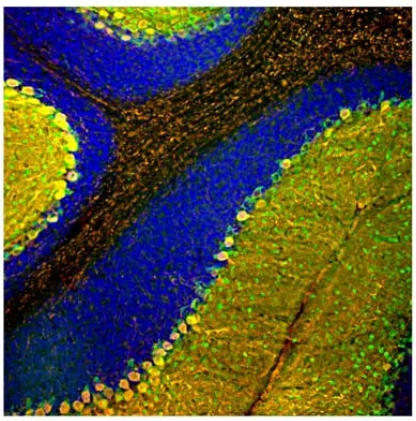
Available Variants	100 µg (SKU:M-1813-100)
Conjugate	Unconjugated
Isotype	IgG1
Clone	3C9
Host Species	Mouse
Format	Affinity-purified
Physical State	Lyophilized
Buffer	Lyophilized from PBS buffer pH 7.2-7.6 with 0.1% trehalose, and sodium azide.
Production Notes	Protein G purified
Applications	IHC, WB
Dilution Ranges	WB: 1:1000-1:5000 IHC: 1:1000-1:5000
Species Reactivity	Human, Mouse, Rat
Immunogen	Full-length recombinant human protein
Specificity	Reacts with human, rat, mouse. Antibody is specific for parvalbumin and does not recognize closely related proteins calretinin and calbindin 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	P20472

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 parvalbumin in adult rat cerebellum floating section by **Immunohistochemistry**. Mouse antibody to parvalbumin (1:1,000, green) stains dendrites and perikarya of Purkinje cells and some interneurons in the molecular layer. Blue: Nuclear DNA stain. Right: **Western blot** analysis of parvalbumin expression in rat skeletal muscle homogenate (Lane 1). The antibody (1:1,000) detects parvalbumin at ~12 kDa in homogenate (Lane 1) and His-tagged parvalbumin protein (Lane 2) at slightly higher molecular weight. The antibody does not cross-react with His-tagged proteins calretinin (Lane 3) and calbindin (Lane 4). Note that this antibody does not recognize parvalbumin in rat or mouse brain lysates on western blots.



Rat cerebellum section stained with mouse anti-parvalbumin (green, 1:1,000) and chicken anti-calbindin (C-1798-50, red, 1:2,000) by **Immunohistochemistry**. Blue: DAPI nuclear stain. *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. Most Purkinje cells strongly express both parvalbumin and calbindin and so appear yellow, whereas basket, stellate and Golgi cells express parvalbumin alone, and so appear green.