

Product Datasheet

Parvalbumin Antibody (3C9)

NBP2-50038

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP2-50038

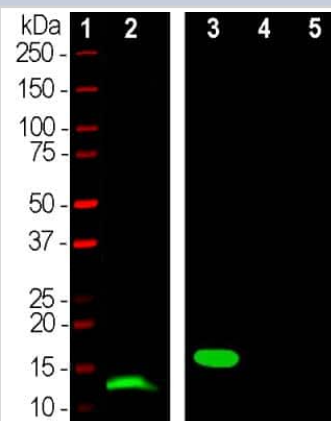
Parvalbumin Antibody (3C9)

Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	3C9
Preservative	0.035% Sodium Azide
Isotype	IgG1
Purity	Immunogen affinity purified
Buffer	50% PBS, 50% glycerol
Target Molecular Weight	12 kDa
Product Description	
Host	Mouse
Gene ID	5816
Gene Symbol	PVALB
Species	Human, Mouse, Rat, Porcine, Bovine, Equine
Immunogen	Full-length recombinant human Parvalbumin expressed in and purified from E. coli. [UniProt# P20472]
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1:1000 - 1:5000, Immunohistochemistry 1:1000 - 1:5000, Immunocytochemistry/ Immunofluorescence 1:1000 - 1:5000
Application Notes	In WB, this antibody recognizes a band at 12 kDa in skeletal muscle lysates, which represents Parvalbumin. Note, this antibody is not cross-reactive with either calbindin or calretinin despite their related amino acid sequences.

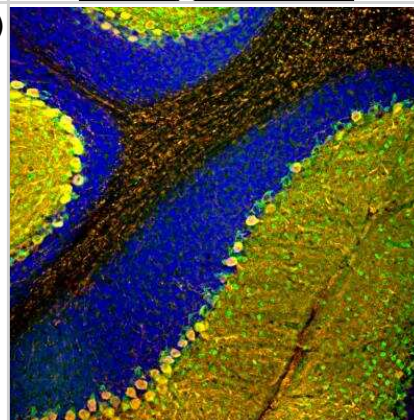


Images

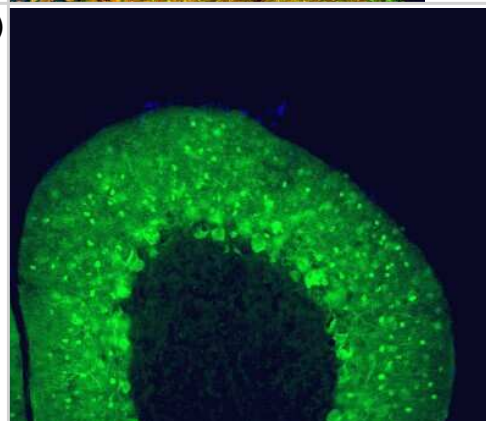
Western Blot: Parvalbumin Antibody (3C9) [NBP2-50038] - Analysis of skeletal muscle lysates and His-tagged recombinant proteins using mouse parvalbumin mAb, dilution 1:1,000 (Green): [1] protein standard (Red), [2] mouse muscle, [3] full length human parvalbumin, [4] full length human calretinin, and [5] full length human calbindin. A band at 12kDa is detected in in muscle lysate and one at 18kDa in the His-tagged recombinant parvalbumin protein lane as expected since the His-tag and other vector derived sequence adds about 6kDa to the molecule. Note that the parvalbumin antibody is not cross-reactive with either calbindin or calretinin despite their related amino acid sequences.



Immunocytochemistry/Immunofluorescence: Parvalbumin Antibody (3C9) [NBP2-50038] - Analysis of rat cerebellum section stained with mouse mAb to parvalbumin, NBP2-50038, dilution 1:1,000, in green, and costained with chicken pAb to calbindin, dilution 1:2,000 in red. The blue is DAPI staining of nuclear DNA. Following transcatheter perfusion of rat with 4% paraformaldehyde, brain was post fixed for 24 hours, cut to 45 μ M, and free-floating sections were stained with above antibodies. 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 are green.



Immunocytochemistry/Immunofluorescence: Parvalbumin Antibody (3C9) [NBP2-50038] - Adult rat cerebellum floating section was stained with NBP2-50038 at 1:1,000 (green). Parvalbumin is prominently expressed in the dendrites and perikarya of Purkinje cells and some interneurons in the molecular layer. Blue is a DNA stain.



Publications

Sun XY, Liu L, Song YT et al. Two parallel medial prefrontal cortex-amygdala pathways mediate memory deficits via glutamatergic projection in surgery mice Cell reports 2023-06-30 [PMID: 37392387] (Mouse)

Sun X, Liu L, Wu T et al. Two Parallel Medial Prefrontal Cortex-Amygdala Circuits Mediate Memory Deficit via Glutamatergic Projection in Surgery Mice SSRN Electronic Journal 2022-10-12 (IF/IHC, Mouse)



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Products Related to NBP2-50038

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)
NBP1-50865-0.1mg	Recombinant Human Parvalbumin His Protein

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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