

Product Datasheet

Parvalbumin Antibody - BSA Free NBP2-50036

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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NBP2-50036

Parvalbumin Antibody - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgY
Purity	IgY purified
Buffer	Supplied as a concentrated total IgY preparation from egg yolk, dialyzed against PBS with added preservative.
Target Molecular Weight	12 kDa

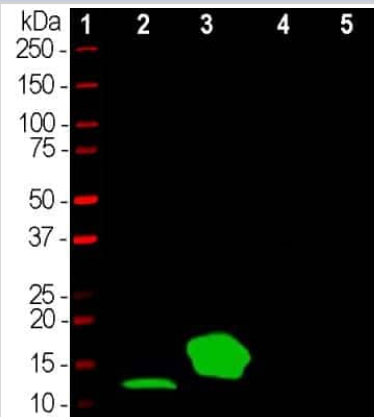
Product Description	
Description	<p>This antibody is supplied as a concentrated total IgY preparation derived from egg yolk. Production involves an initial organic extraction to remove lipids and lipoproteins, followed by salt fractionation of the aqueous phase to precipitate and enrich the IgY fraction. The material is then extensively dialyzed against PBS, and preservative is added during final formulation.</p> <p>Please note that the exact concentration of target-specific IgY cannot be determined, as the final preparation contains both antigen-specific IgY and non-immune IgY.</p>
Host	Chicken
Gene ID	5816
Gene Symbol	PVALB
Species	Human, Mouse, Rat
Immunogen	Recombinant full length human Parvalbumin. [UniProt# P20472]
Notes	Chicken products cannot be exported to Canada.

Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry Free-Floating
Recommended Dilutions	Western Blot 1:1000 - 1:5000, Immunohistochemistry 1:1000 - 1:5000, Immunocytochemistry/ Immunofluorescence 1:1000 - 1:5000, Immunohistochemistry-Frozen, Immunohistochemistry Free-Floating
Application Notes	Use in IHC-Fr reported in scientific literature (PMID:33309937). In WB, this antibody recognizes a band at 12 kDa in skeletal muscle lysates which represents parvalbumin and it reacts only with parvalbumin and not the other calcium-binding proteins. This antibody does not recognize parvabumin in rat or mouse brain lysates on western blots.

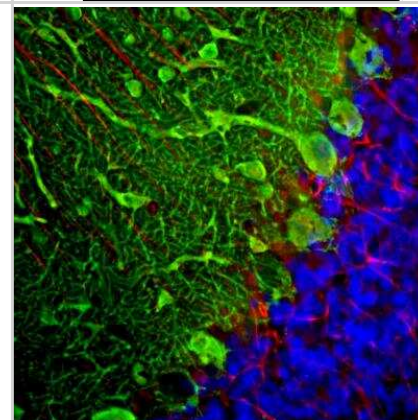


Images

Western Blot: Parvalbumin Antibody [NBP2-50036] - Analysis of skeletal muscle lysates and His-tagged recombinant human proteins using chicken parvalbumin pAb, dilution 1:2,000 (Green): [1] protein standard (Red), [2] mouse muscle, [3] recombinant full length human parvalbumin, [4] recombinant full length human calretinin and [5] recombinant full length human calbindin. Band at 12kDa in muscle lysate is native parvalbumin and 18kDa band in the next lane is His-tagged recombinant parvalbumin. The parvalbumin antibody binds parvalbumin strongly but is not cross-reactive with the related calcium binding proteins calretinin and calbindin.



Immunohistochemistry Free-Floating: Parvalbumin Antibody [NBP2-50036] - Analysis of a rat cerebellum section stained with chicken pAb to parvalbumin, NBP2-50036, dilution 1:2,000, in green, and costained with mouse mAb to GFAP, dilution 1:500, in red. The blue is DAPI staining of nuclear DNA. Following transcardial perfusion of rat with 4% paraformaldehyde, brain was post fixed for 24 hours, cut to 45uM, and free floating sections were stained with above antibodies. NBP2-50036 antibody labels the perikarya and dendrites of Purkinje cells and interneurons in the molecular layer of the cerebellum. The GFAP antibody stains the processes of Bergmann glia and astrocytes.



Publications

Mark St Pierre, Neetika Rastogi, Ashley Brown, Pritika Parmar, Charles Lechner, Camille Fung, Raul Chavez-Valdez Intrauterine Growth Restriction Disrupts the Postnatal Critical Period of Synaptic Plasticity in the Mouse Dorsal Hippocampus in a Model of Hypertensive Disease of Pregnancy. *Developmental neuroscience* 2022-09-14 [PMID: 34933306] (Immunohistochemistry, Mouse)

Parmar P, Spahic H, Lechner C et al. Neonatal hypoxia-ischemia alters the events governing the hippocampal critical period of postnatal synaptic plasticity leading to deficits in working memory in mice. *Neurobiology of disease* 2024-10-30 [PMID: 39486775]

Spahic H, Parmar P, Miller S et al. Dysregulation of ErbB4 Signaling Pathway in the Dorsal Hippocampus after Neonatal Hypoxia-Ischemia and Late Deficits in PV+ Interneurons, Synaptic Plasticity and Working Memory *International Journal of Molecular Sciences* 2022-12-28 [PMID: 36613949] (IHC-FrFl, Mouse)

Venturino A, Schulz R, De Jesus-Cortes H Et Al. Microglia enable mature perineuronal nets disassembly upon anesthetic ketamine exposure or 60-Hz light entrainment in the healthy brain *Cell reports* 2021-07-06 [PMID: 34233180] (IF/IHC)

Lechner CR, McNally MA, St Pierre M et al. Sex specific correlation between GABAergic disruption in the dorsal hippocampus and flurothyl seizure susceptibility after neonatal hypoxic-ischemic brain injury *Neurobiology of disease* 2020-12-09 [PMID: 33309937] (IHC-Fr, Mouse)

Chao O, Fernandes de Velasco E, Pathak S et al. Targeting inhibitory cerebellar circuitry to alleviate behavioral deficits in a mouse model for studying idiopathic autism *Neuropsychopharmacology* 2020-03-16 [PMID: 32179875] (IF/IHC, Mouse)



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Products Related to NBP2-50036

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
BAF010	Goat anti-Chicken IgY Secondary Antibody [Biotin]
NB7276	Goat anti-Chicken IgM Heavy Chain Secondary Antibody
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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