

Product Datasheet

Parvalbumin Antibody - BSA Free NB120-11427

Unit Size: 0.1 mg

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

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NB120-11427

Parvalbumin Antibody - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
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	IgG
Purity	Immunogen affinity purified
Buffer	PBS

Product Description	
Description	Novus Biologicals Rabbit Parvalbumin Antibody - BSA Free (NB120-11427) is a polyclonal antibody validated for use in IHC, WB, ELISA, Flow, ICC/IF and IP. Anti-Parvalbumin Antibody: Cited in 34 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	5816
Gene Symbol	PVALB
Species	Human, Mouse, Rat, Feline
Reactivity Notes	Use in Feline reported in scientific literature (PMID:10.1016/j.celrep.2021.109083). Mouse reactivity reported in scientific literature (PMID: 24065886). Mouse reactivity reported in scientific literature (PMID:33053349).
Immunogen	Parvalbumin Antibody made from purified parvalbumin

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, ELISA, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation, Immunohistochemistry Free-Floating
Recommended Dilutions	Western Blot 0.1 ug/ml, ELISA 1:100 - 1:2000, Immunohistochemistry 1:10 - 1:500, Immunocytochemistry/ Immunofluorescence 1:100 - 1:200, Immunoprecipitation 5 ug/ml, Immunohistochemistry-Paraffin 1 ug/ml, Immunohistochemistry-Frozen 1:10 - 1:500, Immunohistochemistry Free-Floating reported in scientific literature (PMID 33515957)



Images

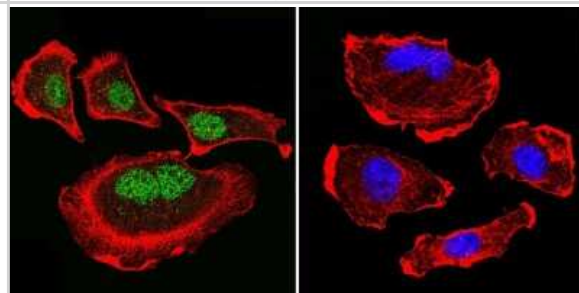
Western Blot: Parvalbumin Antibody [NB120-11427] - WB analysis of rat cerebellum extract.

Fig. 1

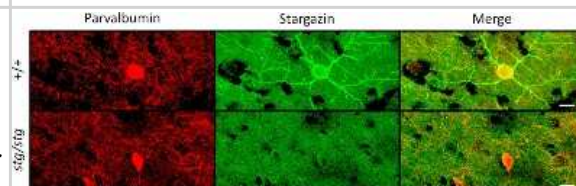
parvalbumin



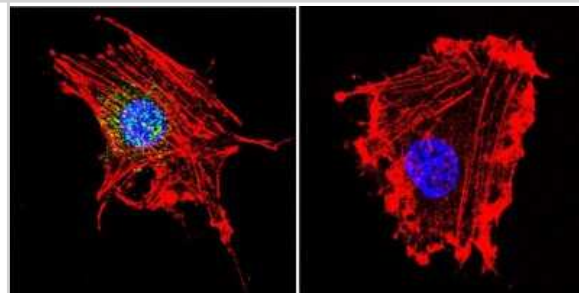
Immunocytochemistry/Immunofluorescence: Parvalbumin Antibody [NB120-11427] - Analysis of Parvalbumin using anti-Parvalbumin polyclonal antibody shows staining in U251 Cells. Parvalbumin staining (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with or an antibody recognizing Parvalbumin at a dilution of 1:200 overnight at 4C, washed with PBS and incubated with a DyLight-488 conjugated.



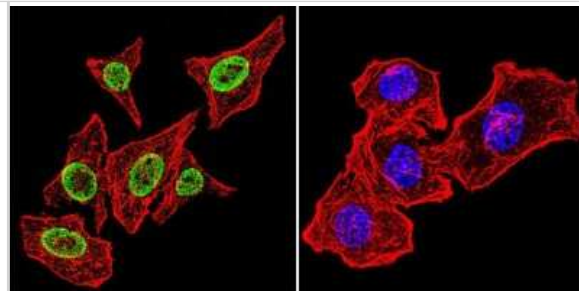
Immunohistochemistry-Paraffin: Parvalbumin Antibody [NB120-11427] - Stargazin expression is restricted to PV+ interneurons in WT mouse somatosensory cortex (upper row). Somatodendritic stargazin immunoreactivity is lost in PV+ interneurons in stargazer mouse (lower row). Co-labeling of stargazin and parvalbumin antibodies shown in layer 2/3 at 63x magnification (scale = 10 um). Image collected and cropped by CiteAb from the following publication (<https://journal.frontiersin.org/article/10.3389/fncel.2013.00156/abstract>), licensed under a CC-BY license.



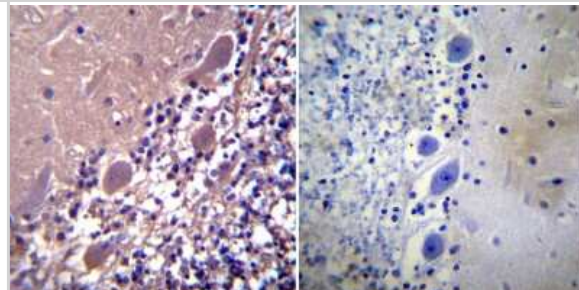
Immunocytochemistry/Immunofluorescence: Parvalbumin Antibody [NB120-11427] - Analysis of Parvalbumin using anti-Parvalbumin polyclonal antibody shows staining in C6 Cells. Parvalbumin staining (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with or an antibody recognizing Parvalbumin at a dilution of 1:100 overnight at 4C, washed with PBS and incubated with a DyLight-488 conjugated.



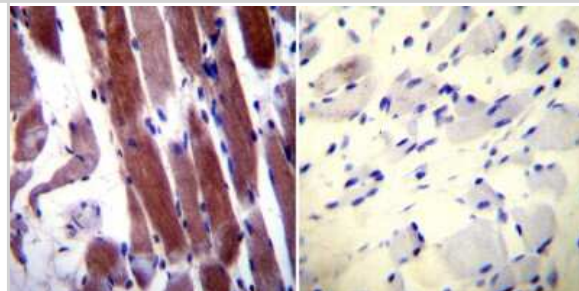
Immunocytochemistry/Immunofluorescence: Parvalbumin Antibody [NB120-11427] - Analysis of Parvalbumin using anti-Parvalbumin polyclonal antibody shows staining in Hela Cells. Parvalbumin staining (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with or an antibody recognizing Parvalbumin at a dilution of 1:100 overnight at 4C, washed with PBS and incubated with a DyLight-488 conjugated.



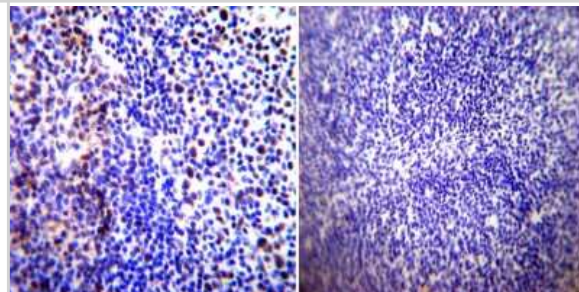
Immunohistochemistry-Paraffin: Parvalbumin Antibody [NB120-11427] - Normal biopsies of deparaffinized human cerebellum tissue.



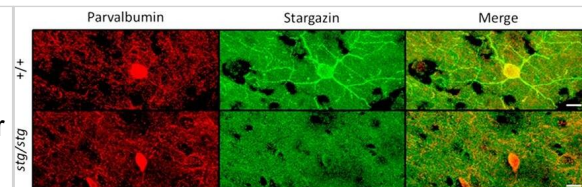
Immunohistochemistry-Paraffin: Parvalbumin Antibody [NB120-11427] - Normal biopsies of deparaffinized human skeletal muscle tissue.



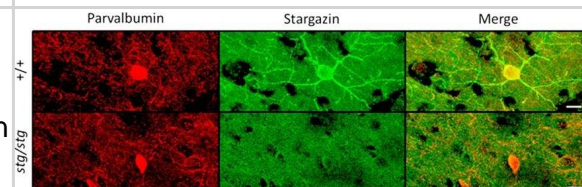
Immunohistochemistry-Paraffin: Parvalbumin Antibody [NB120-11427] - Normal biopsies of deparaffinized human tonsil tissue.



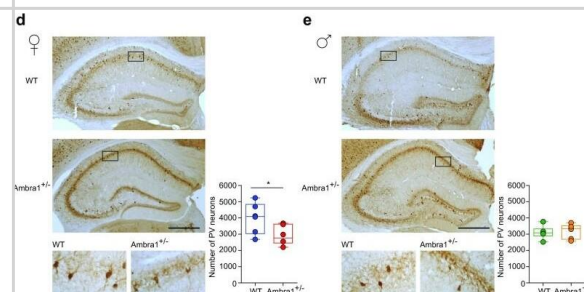
Stargazin expression is restricted to PV+ interneurons in WT mouse somatosensory cortex (upper row). Somatodendritic stargazin immunoreactivity is lost in PV+ interneurons in stargazer mouse (lower row). Co-labeling of stargazin and parvalbumin antibodies shown in layer 2/3 at 63× magnification (scale = 10 μm).



Immunocytochemistry/ Immunofluorescence: Parvalbumin Antibody - BSA Free [NB120-11427] - Stargazin expression is restricted to PV+ interneurons in WT mouse somatosensory cortex (upper row). Somatodendritic stargazin immunoreactivity is lost in PV+ interneurons in stargazer mouse (lower row). Co-labeling of stargazin & parvalbumin antibodies shown in layer 2/3 at 63× magnification (scale = 10 μm). Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/24065886>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Immunohistochemistry: Parvalbumin Antibody - BSA Free [NB120-11427] - Female *Ambra1*^{+/-} mice show reduced numbers of hippocampal PV interneurons. a Nissl staining of dorsal hippocampus coronal sections from WT & *Ambra1*^{+/-} female mice (scale bar: 500 μm). b Subdivision of hippocampal layers (stratum oriens, CA1 pyramidal layer, stratum radiatum, stratum lacunosum moleculare, stratum moleculare, dentate gyrus upper blade, hilus, dentate gyrus lower blade), corresponding to the area depicted in a (scale bar: 100 μm). *Ambra1*^{+/-} females show normal hippocampal layering (n = 3 mice per genotype). c Double labeling for *Ambra1* (green) & PV (red) in the CA1 from a WT female; sections were DAPI-counterstained (blue) for neuronal nuclei (scale bar: 50 μm). The higher magnification image (scale bar, 5 μm) from the stratum pyramidale shows a PV neuron (right; merge in orange) & an unidentified neuron (left), both expressing *Ambra1*. The DAPI signal is omitted for clarity & neuron borders are indicated by a dash line (n = 3 mice; three sections per animal). d, e Immunohistochemical labeling of PV in a coronal brain section of dorsal hippocampus obtained from female (d) & male (e) mice (scale bars: 500 μm). On the right are higher magnification images (scale bars: 50 μm). The plots show stereological quantification of PV interneurons (n = 6 mice per genotype & per gender; 14 sections per animal). The reduction in PV interneuron numbers is selective for female *Ambra1*^{+/-} (two-tailed unpaired t test: *P = 0.043) Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/29488136>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Kim G, Shin H, Eom M et al. Doubling multiplexed imaging capability via spatial expression pattern-guided protein pairing and computational unmixing *Communications Biology* 2025-06-14 [PMID: 40517167]

Imam A, Ajibola O, Akorede A et al. Valproate-vitamin E co-treatment preserved cortico-callosal white matter integrities in cypermethrin co-exposed pentylene tetrazole induced seizure. *BMC Neuroscience* 2025-07-31 [PMID: 40739166]

Ahmed M, Abdou K, Ibrahim W et al. Sigma-1 Receptor Activation by Fluvoxamine Ameliorates ER Stress, Synaptic Dysfunction and Behavioral Deficits in a Ketamine Model of Schizophrenia *Journal of Neuroimmune Pharmacology* 2025-07-25 [PMID: 40711497]

Harkness JH, Gonzalez AE, Bushana PN et al. Diurnal changes in perineuronal nets and parvalbumin neurons in the rat medial prefrontal cortex *Brain Structure and Function* 2021-05-01 [PMID: 33585984]

Stevens SR, Longley CM, Ogawa Y et al. Ankyrin-R regulates fast-spiking interneuron excitability through perineuronal nets and Kv3.1b K(+) channels *eLife* 2021-06-28 [PMID: 34180393]

Ebokaiwe AP, Okori S, Nwankwo JO et al. Selenium nanoparticles and metformin ameliorate streptozotocin-instigated brain oxidative-inflammatory stress and neurobehavioral alterations in rats *Naunyn-Schmiedeberg's Archives of Pharmacology* 2021-04-01 [PMID: 33064168]

Miguel JC, Perez SE, Malek-Ahmadi M, Mufson EJ. Cerebellar Calcium-Binding Protein and Neurotrophin Receptor Defects in Down Syndrome and Alzheimer's Disease *Frontiers in Aging Neuroscience* 2021-03-12 [PMID: 33776745]

Wingert JC, Anguiano JN, Ramos JD, Blacktop JM et Al. Enhanced expression of parvalbumin and perineuronal nets in the medial prefrontal cortex after extended-access cocaine self-administration in rats *Addict Biol* 2023-10-19 [PMID: 37855072]

Cheng-Hsin Liu, Ryan Seo, Tammy Szu-Yu Ho, Michael Stankewich, Peter J Mohler, Thomas J Hund et al. β spectrin-dependent and domain specific mechanisms for Na⁺ channel clustering *eLife* 2020-05-19 [PMID: 32425157]

Wingert JC, Ramos JD, Reynolds SX, Gonzalez AE et Al. Perineuronal Nets in the Rat Medial Prefrontal Cortex Alter Hippocampal-Prefrontal Oscillations and Reshape Cocaine Self-Administration Memories *J Neurosci* 2024-07-11 [PMID: 38991791]

Orso R, Creutzberg KC, Begni V et Al. Emotional dysregulation following prenatal stress is associated with altered prefrontal cortex responsiveness to an acute challenge in adolescence *Prog Neuropsychopharmacol Biol Psychiatry* 2024-10-09 [PMID: 39383932]

Park JW, Lee EJ, Moon E et Al. Orthodenticle homeobox 2 is transported to lysosomes by nuclear budding vesicles *Nat Commun* 2023-02-27 [PMID: 36849521] (Western Blot, Immunocytochemistry, Immunocytochemistry/Immunofluorescence)

More publications at <http://www.novusbio.com/NB120-11427>





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NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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