

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	
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, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, 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

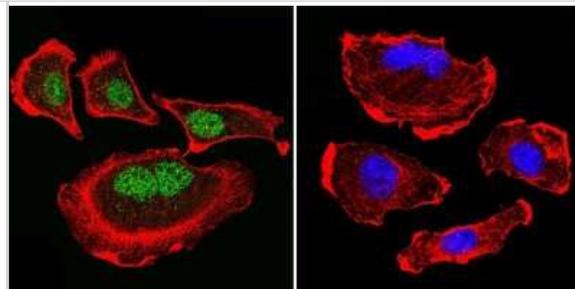
Western Blot: Parvalbumin Antibody [NB120-11427] - WB analysis of rat cerebellum extract.

Fig. 1

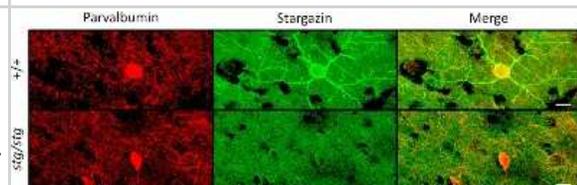
parvalbumin



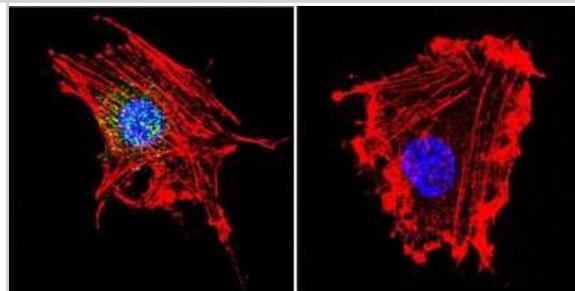
Immunocytochemistry/Immunofluorescence: Parvalbumin Antibody [NB120-11427] - Analysis of Parvalbumin using anti-Parvalbumin polyclonal antibody shows staining in U251 Cells. Parvalbumin staining (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Cells were grown on 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.



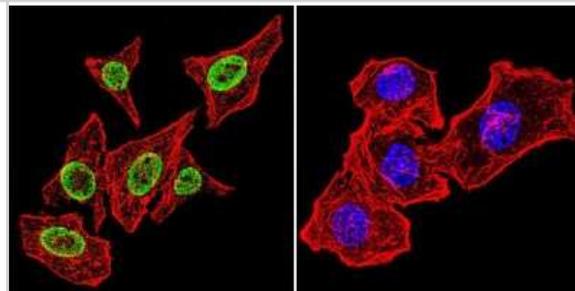
Immunohistochemistry-Paraffin: Parvalbumin Antibody [NB120-11427] - Stargazin expression is restricted to PV+ interneurons in WT mouse somatosensory cortex (upper row). Somatodendritic stargazin immunoreactivity is lost in PV+ interneurons in stargazer mouse (lower row). Co-labeling of stargazin and 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.



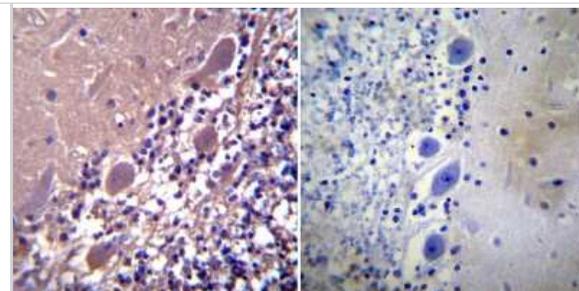
Immunocytochemistry/Immunofluorescence: Parvalbumin Antibody [NB120-11427] - Analysis of Parvalbumin using anti-Parvalbumin polyclonal antibody shows staining in C6 Cells. Parvalbumin staining (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Cells were grown on chamber 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.



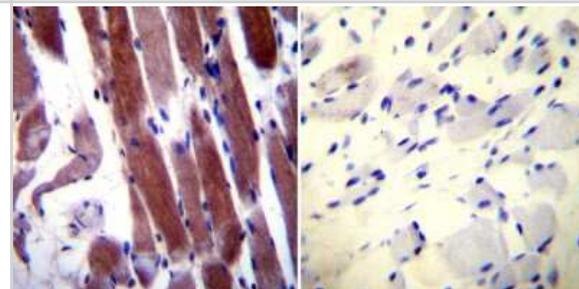
Immunocytochemistry/Immunofluorescence: Parvalbumin Antibody [NB120-11427] - Analysis of Parvalbumin using anti-Parvalbumin polyclonal antibody shows staining in Hela Cells. Parvalbumin staining (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Cells were grown on 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.



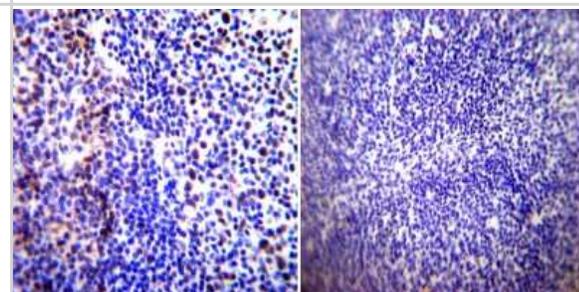
Immunohistochemistry-Paraffin: Parvalbumin Antibody [NB120-11427] - Normal biopsies of deparaffinized human cerebellum tissue.



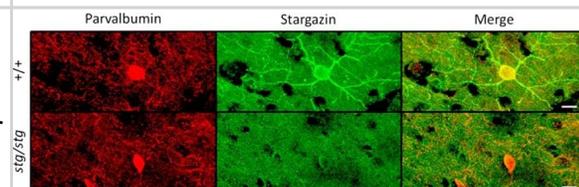
Immunohistochemistry-Paraffin: Parvalbumin Antibody [NB120-11427] - Normal biopsies of deparaffinized human skeletal muscle tissue.



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).



Publications

Meilinn Tram, Tarek Ibrahim, Anahit Hovhannisyanyan, Armen Akopian, Shivani Ruparel Lingual innervation in male and female marmosets *Neurobiology of Pain* 2023-05-31 [PMID: 38099285]

Kim HR, Lee HJ, Jeon Y et al. Targeting SARM1 improves autophagic stress-induced axonal neuropathy *Autophagy* 2023-08-18 [PMID: 37561040]

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] (WB)

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]

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]

Ginder DE Impacts of Prenatal Cannabis Exposure on the Medial Prefrontal Cortex in Adulthood Thesis 2023-01-01 (WB, Mouse)

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] (IHC, Mouse)

Tram M, Ibrahim T, Hovhannisyanyan A et al. Lingual innervation in male and female marmosets *Neurobiology of Pain* 2023-08-01 (IHC-Fr, Primate)

Details:

Species-marmoset (*Callithrix jacchus*)

Creutzberg KC, Begni V, Marchisella F et al. Early effects of lurasidone treatment in a chronic mild stress model in male rats *Psychopharmacology* 2023-02-23 [PMID: 36820870] (ICC/IF, Rat)

Li J, Godoy MI, Zhang AJ et al. Prdm16 and Vcam1 regulate the postnatal disappearance of embryonic radial glia and the ending of cortical neurogenesis *bioRxiv : the preprint server for biology* 2023-02-14 [PMID: 36824905] (IHC-Fr, Mouse)

Hovhannisyanyan AH, Lindquist KA, Belugin S et al. Sensory innervation of masseter, temporal and lateral pterygoid muscles in common marmosets *bioRxiv : the preprint server for biology* 2023-02-12 [PMID: 36798270] (IHC-Fr, Primate, Marmoset)

Details:

Dilution used in IHC-Fr 1:200

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





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Products Related to NB120-11427

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
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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