

Product Datasheet

Neurologin 3/NLGN3 Antibody - BSA Free NBP1-90080

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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NBP1-90080

Neurologin 3/NLGN3 Antibody - BSA Free

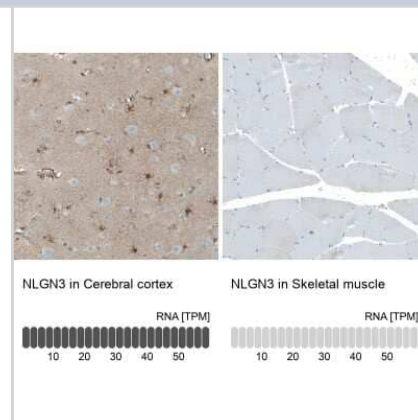
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol

Product Description	
Host	Rabbit
Gene ID	54413
Gene Symbol	NLGN3
Species	Human, Mouse
Reactivity Notes	Use in Mouse reported in scientific literature (PMID: 34040258).
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: APAPT ^V NTHFGKLRGARVPLPSEILGPVDQYLGVPYAAPPIGEKRFLPPEPPPS WSGIRNATHFPPVCPQNIHTAVPEVMLPVWFTANLDIVATYIQEPNEDCLYLN YVPTED

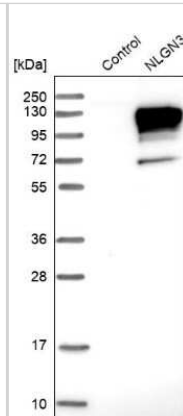
Product Application Details	
Applications	Western Blot, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:50 - 1:200, Immunohistochemistry-Paraffin 1:50 - 1:200
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended.

Images

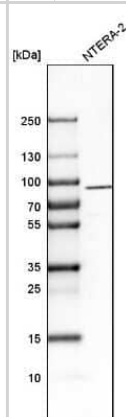
Immunohistochemistry-Paraffin: Neurologin 3/NLGN3 Antibody [NBP1-90080] - Staining in human cerebral cortex and skeletal muscle tissues . Corresponding NLGN3 RNA-seq data are presented for the same tissues.



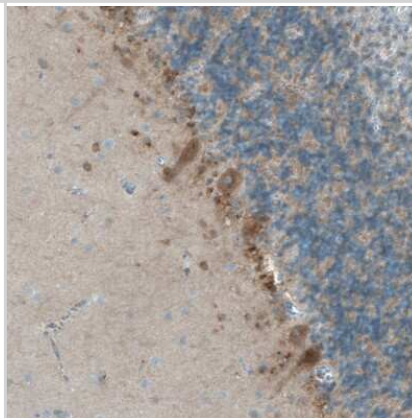
Western Blot: Neuroligin 3/NLGN3 Antibody [NBP1-90080] - Analysis in control (vector only transfected HEK293T lysate) and NLGN3 over-expression lysate (Co-expressed with a C-terminal myc-DDK tag (3.1 kDa) in mammalian HEK293T cells).



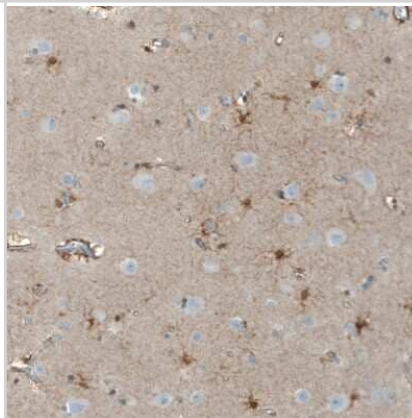
Western Blot: Neuroligin 3/NLGN3 Antibody [NBP1-90080] - Analysis in human cell line NTERA-2.



Immunohistochemistry-Paraffin: Neuroligin 3/NLGN3 Antibody [NBP1-90080] - Staining of human cerebellum shows moderate to strong cytoplasmic positivity in purkinje cells.



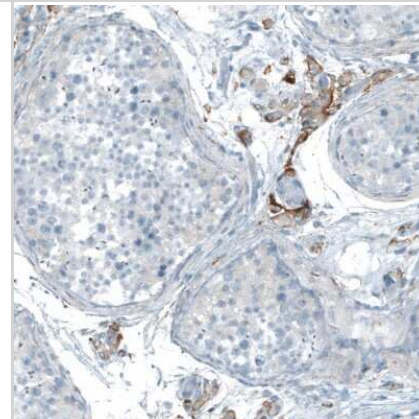
Immunohistochemistry-Paraffin: Neuroligin 3/NLGN3 Antibody [NBP1-90080] - Staining of human cerebral cortex shows moderate positivity.



Immunohistochemistry-Paraffin: Neuroligin 3/NLGN3 Antibody [NBP1-90080] - Staining of human skeletal muscle shows no cytoplasmic positivity in myocytes.



Immunohistochemistry-Paraffin: Neuroligin 3/NLGN3 Antibody [NBP1-90080] - Staining of human testis shows moderate cytoplasmic positivity in Leydig cells.



Publications

T Takano, JT Wallace, KT Baldwin, AM Purkey, A Uezu, JL Courtland, EJ Soderblom, T Shimogori, PF Maness, C Eroglu, SH Soderling Chemico-genetic discovery of astrocytic control of inhibition in vivo *Nature*, 2020-11-11;0(0):. 2020-11-11 [PMID: 33177716]

Yun EJ, Kim D, Kim S et al. Targeting Wnt/ β -catenin-mediated upregulation of oncogenic NLGN3 suppresses cancer stem cells in glioblastoma *Cell death & disease* 2023-07-13 [PMID: 37443071] (Block/Neutralize)

Anstey NJ, Kapgal V, Tiwari S et al. Imbalance of flight-freeze responses and their cellular correlates in the Nlgn3-/- rat model of autism *Molecular autism* 2022-07-18 [PMID: 35850732] (WB, Rat)

Ramirez M, Ninoyu Y, Miller C et al. Cochlear ribbon synapse maturation requires Nlgn1 and Nlgn3 *iScience* 2022-07-01 [PMID: 35992071] (IHC-P, Mouse)

Pan Y, Hysinger JD, Barron T et al. NF1 mutation drives neuronal activity-dependent initiation of optic glioma *Nature* 2021-05-26 [PMID: 34040258] (WB, Mouse)

Details:

Western blotting was performed using the Neuroligin 3/NLGN3 antibody with protein from the lysed optic nerve of mice. This allowed for the expression of NLGN3 in the optic nerves of Nf1^{OPG} mice to be quantified relative to the wild-type mouse.

Subhramanyam CS, Cao Q, Wang C et al. Role of PIWI-like 4 in modulating neuronal differentiation from human embryonal carcinoma cells *RNA Biol* 2020-05-06 [PMID: 32372724]



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Products Related to NBP1-90080

NBP1-90080PEP	Neuroigin 3/NLGN3 Recombinant Protein Antigen
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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