

NLGN1 Polyclonal Antibody

Product Details	
Size	100 µL
Species Reactivity	Mouse, Rat
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Carrier-protein conjugated synthetic peptide encompassing a sequence within the N-terminus region of mouse Neuroligin 1. The exact sequence is proprietary.
Form	Liquid
Concentration	0.39 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS, pH 7, with 20% glycerol, 1% BSA
Contains	0.025% ProClin 300
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2736213

Applications	Tested Dilution	Publications
Western Blot (WB)	1:500-1:3,000	-
Immunocytochemistry (ICC/IF)	1:100-1:1,000	-

Product Specific Information

Positive Control: mouse brain, rat brain

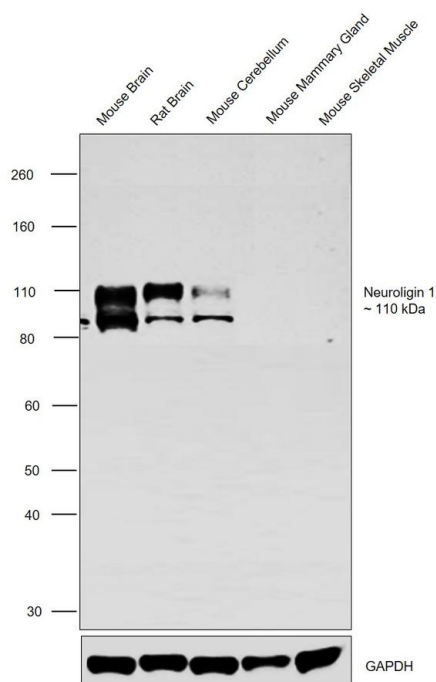
Predicted reactivity: Mouse (100%), Rat (100%).

Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

Product Images For NLGN1 Polyclonal Antibody

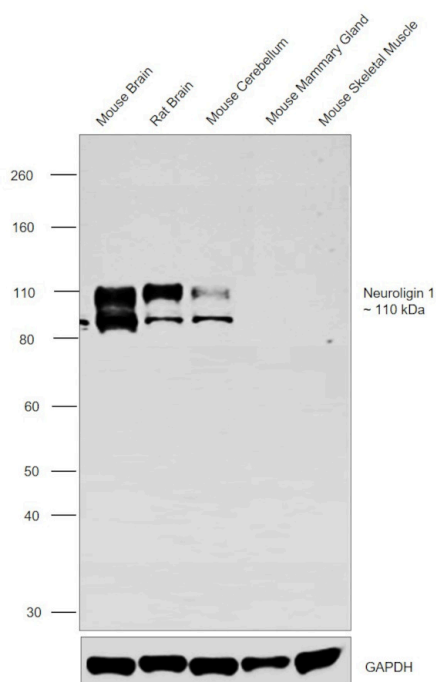
NLGN1 Antibody (PA5-78648) in WB

Western blot was performed using Anti-NLGN1 Polyclonal Antibody (Product # PA5-78648) and a 110 kDa band corresponding to Neuroligin-1 was observed only in Mouse Brain, Rat Brain and Mouse Cerebellum which are reported to be positive and not in any other tissues like Mouse Mammary gland and Skeletal muscle. Tissue extracts (30 µg lysate) of Mouse Brain (Lane 1), Rat Brain (Lane 2), Mouse Cerebellum (Lane 3), Mouse Mammary gland (Lane 4) and Mouse Skeletal Muscle (Lane 5) were electrophoresed using NuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP0321BOX). Resolved proteins were then transferred onto a Nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1: 1000 dilution) and detected by chemiluminescence with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005). An uncharacterized band of ~90 kDa was also observed in positive tissues.



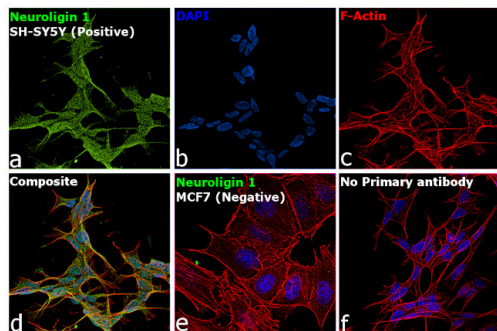
NLGN1 Antibody (PA5-78648)

Antibody specificity was demonstrated by detection of differential basal expression of the target across tissues owing to their inherent genetic constitution. Relative expression of Neuroligin-1 was observed only in Mouse Brain, Rat Brain and Mouse Cerebellum which are reported to be positive and not in any other tissues like Mouse Mammary gland and Skeletal muscle using Anti-NLGN1 Polyclonal Antibody (Product # PA5-78648) in Western Blot. An uncharacterized band of ~90 kDa was also observed in positive tissues. {RE}



NLGN1 Antibody (PA5-78648) in ICC/IF

Immunofluorescence analysis of Neuroligin-1 was performed using 70% confluent log phase SH-SY5Y cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 2% BSA for 45 minutes at room temperature. The cells were labeled with NLGN1 Polyclonal Antibody (Product # PA5-78648) at 1:250 dilution in 0.1% BSA, incubated at 4 degree celsius overnight and then labeled with Donkey anti-Rabbit IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor Plus 488 (Product # A32790), (1:2000 dilution), for 45 minutes at room temperature (Panel a: Green). Nuclei (Panel b: Blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c: Red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing Plasma membrane localization. Panel e represents MCF7 cells having no expression of Neuroligin 1. Panel f represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



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