

# Product Datasheet

## Neurologin 1/NLGN1 Antibody (S97A-31) - BSA Free NBP2-42192

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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### Publications: 1

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**NBP2-42192**

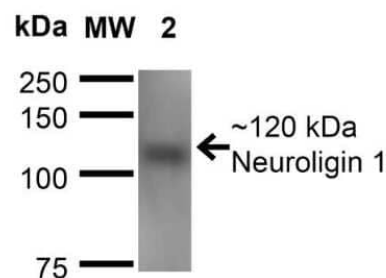
Neuroigin 1/NLGN1 Antibody (S97A-31) - BSA Free

<b>Product Information</b>	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	1 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	S97A-31
<b>Preservative</b>	0.1% Sodium Azide
<b>Isotype</b>	IgG1
<b>Purity</b>	Protein G purified
<b>Buffer</b>	PBS (pH 7.4), 50% Glycerol
<b>Product Description</b>	
<b>Host</b>	Mouse
<b>Gene ID</b>	22871
<b>Gene Symbol</b>	NLGN1
<b>Species</b>	Human, Mouse, Rat
<b>Specificity/Sensitivity</b>	Greater than 40% identity with Neuroigin-2 and -3. Detects approx 120kDa. Does not cross-react with other Neuroligins.
<b>Immunogen</b>	Fusion protein amino acids 718-843 (cytoplasmic C-terminus) of rat Neuroigin-1. Mouse: 99% identity (125/126 amino acids identical). Human: 99% identity (125/126 amino acids identical) >40% identity with Neuroigin-2 and -3.
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
<b>Recommended Dilutions</b>	Western Blot 1:1000, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:100
<b>Application Notes</b>	2 ug/ml of Neuroigin 1 Antibody was sufficient for detection of Neuroigin-1 in 20 ug of rat brain lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary Antibody.

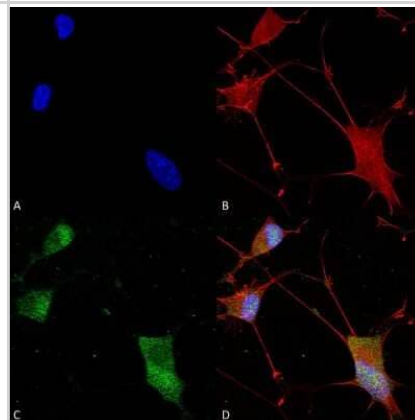


## Images

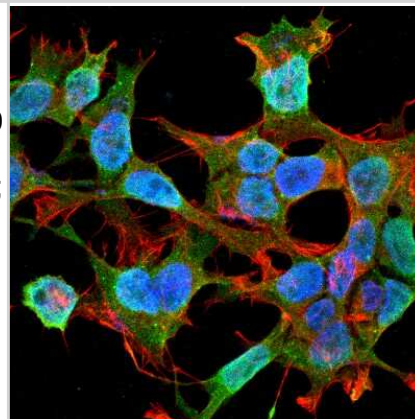
**Western Blot: Neuroligin 1/NLGN1 Antibody (S97A-31) [NBP2-42192] -**  
Western Blot analysis of Mouse Brain Membrane showing detection of ~120 kDa Neuroligin 1/NLGN1 protein using Mouse Anti-Neuroligin 1/NLGN1 Monoclonal Antibody, Clone S97A-31 (NBP2-42192). Lane 1: Molecular Weight Ladder. Lane 2: Mouse Brain Membrane. Load: 15 ug. Block: 2% BSA and 2% Skim Milk in 1X TBST. Primary Antibody: Mouse Anti-Neuroligin 1/NLGN1 Monoclonal Antibody (NBP2-42192) at 1:200 for 16 hours at 4C. Secondary Antibody: Goat Anti-Mouse IgG: HRP at 1:1000 for 1 hour RT. Color Development: ECL solution for 6 min in RT. Predicted/Observed Size: ~120 kDa.



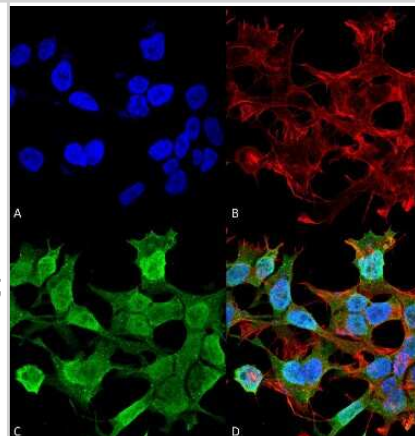
**Immunocytochemistry/Immunofluorescence: Neuroligin 1/NLGN1 Antibody (S97A-31) [NBP2-42192] -**  
Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Neuroligin 1/NLGN1 Monoclonal Antibody, Clone S97A-31 (NBP2-42192). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4% PFA for 15 min. Primary Antibody: Mouse Anti-Neuroligin 1/NLGN1 Monoclonal Antibody (NBP2-42192) at 1:100 for overnight at 4C with slow rocking. Secondary Antibody: AlexaFluor 488 at 1:1000 for 1 hour at RT. Counterstain: Phalloidin-iFluor 647 (red) F-Actin stain; Hoechst (blue) nuclear stain at 1:800, 1.6mM for 20 min at RT. (A) Hoechst (blue) nuclear stain. (B) Phalloidin-iFluor 647 (red) F-Actin stain. (C) Neuroligin 1/NLGN1 Antibody (D) Composite.



**Immunocytochemistry/Immunofluorescence: Neuroligin 1/NLGN1 Antibody (S97A-31) [NBP2-42192] -** Tissue: Neuroblastoma cell line SK-N-BE. Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-Neuroligin 1 Monoclonal Antibody at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Mouse ATTO 488 at 1:100 for 60 min at RT. Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain at 1:1000, 1:5000 for 60min RT, 5min RT. Localization: Cell Membrane, Nucleus. Magnification: 60X.



**Immunocytochemistry/Immunofluorescence: Neuroligin 1/NLGN1 Antibody (S97A-31) [NBP2-42192] -**  
Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Neuroligin 1/NLGN1 Monoclonal Antibody, Clone S97A-31 (NBP2-42192). Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-Neuroligin 1/NLGN1 Monoclonal Antibody (NBP2-42192) at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Mouse ATTO 488 at 1:100 for 60 min at RT. Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain at 1:1000, 1:5000 for 60min RT, 5min RT. Localization: Cell Membrane, Nucleus. Magnification: 60X. (A) DAPI (blue) nuclear stain. (B) Phalloidin Texas Red F-Actin stain. (C) Neuroligin 1/NLGN1 Antibody. (D) Composite.



## Publications

Hacisuleyman E, Hale CR, Noble N et Al. Neuronal activity rapidly reprograms dendritic translation via eIF4G2:uORF binding Nat Neurosci 2024-04-08 [PMID: 38589584]



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### **Products Related to NBP2-42192**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)
NBP1-87888PEP	Neuroigin 1/NLGN1 Recombinant Protein Antigen

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### **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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