

For Research Use Only

# NLGN1 Monoclonal antibody

Catalog Number: 66964-1-Ig **6 Publications**



## Basic Information

<b>Catalog Number:</b> 66964-1-Ig	<b>GenBank Accession Number:</b> BC032555	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1500 µg/ml	<b>GeneID (NCBI):</b> 22871	<b>CloneNo.:</b> 2D1A12
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q8N2Q7	<b>Recommended Dilutions:</b> WB 1:5000-1:20000 IHC 1:750-1:3000
<b>Isotype:</b> IgG1	<b>Full Name:</b> neuroligin 1	
<b>Immunogen Catalog Number:</b> AG6356	<b>Calculated MW:</b> 840 aa, 94 kDa	
	<b>Observed MW:</b> 116 kDa	

## Applications

**Tested Applications:**  
IHC, WB, ELISA

**Cited Applications:**  
WB

**Species Specificity:**  
Human, Mouse, Rat, Pig, Rabbit

**Cited Species:**  
human, rat, mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

**WB :** mouse brain tissue, rat brain tissue, rabbit brain tissue, pig brain tissue, human brain tissue, pig cerebellum tissue, rat cerebellum tissue, mouse cerebellum tissue

**IHC :** mouse brain tissue,

## Background Information

NLGN1, also named KIAA1070, belongs to the type-B carboxylesterase/lipase family. Neuroligin1 (NLGN1) is a main component of the excitatory glutamatergic synapses complex and plays a role in synapse assembly and function (PMID: 34340665). NLGN1 has 2 isoforms with the MV of 92 and 96 kDa. Sometimes higher molecular weight of around 116 kDa can also be observed, which is a glycosylated mature form of NLGN1 (PMID: 28841651).

## Notable Publications

Author	Pubmed ID	Journal	Application
Ji-Yuan Zhao	30049666	Neuroscience	WB
Leon Tejwani	38016472	Neuron	WB
Tianlin Jiang	37923298	Neurochem Int	WB

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

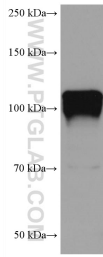
T: 4006900926

E: Proteintech-CN@ptglab.com

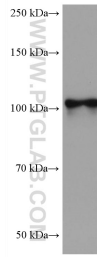
W: ptgcn.com

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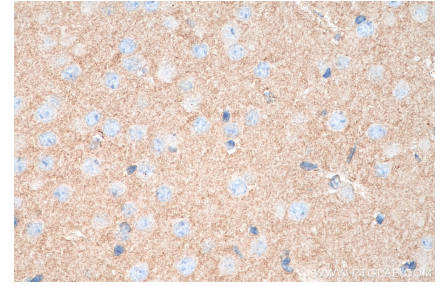
## Selected Validation Data



mouse brain tissue were subjected to SDS PAGE followed by western blot with 66964-1-Ig (NLGN1 antibody) at dilution of 1:15000 incubated at room temperature for 1.5 hours.



rat brain tissue were subjected to SDS PAGE followed by western blot with 66964-1-Ig (NLGN1 antibody) at dilution of 1:15000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 66964-1-Ig (NLGN1 antibody) at dilution of 1:1500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).