

For Research Use Only

# NLGN1 Monoclonal antibody

Catalog Number: 66964-1-Ig **7 Publications**



## Basic Information

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

## Applications

Tested Applications: WB, IHC, ELISA	Positive Controls:
Cited Applications: WB	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
Species Specificity: human, mouse, rat, pig, rabbit	IHC : mouse brain tissue,
Cited Species: human, mouse, rat	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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
Xiaohong Wang	38704913	Phytomedicine	WB
Leon Tejawani	38016472	Neuron	WB

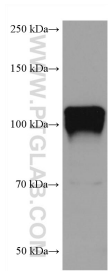
## Storage

Storage:  
Store at -20°C. Stable for one year after shipment.  
Storage Buffer:  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

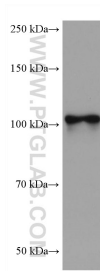
For technical support and original validation data for this product please contact:  
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

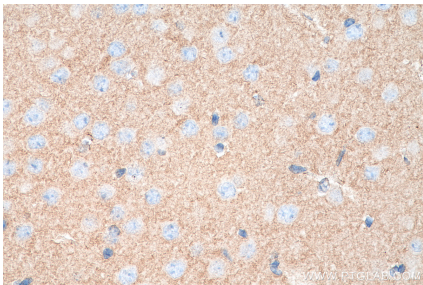
## Selected Validation Data



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).