

NLGN1 Monoclonal antibody

Catalog Number: 66964-1-Ig 6 Publications

Basic Information

Catalog Number: 66964-1-Ig	GenBank Accession Number: BC032555	Purification Method: Protein A purification
Size: 150ul , Concentration: 1500 µg/ml by Nanodrop and 875 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 22871	CloneNo.: 2D1A12
Source: Mouse	Full Name: neuroligin 1	Recommended Dilutions: WB 1:5000-1:20000 IHC 1:750-1:3000
Isotype: IgG1	Calculated MW: 840 aa, 94 kDa	
Immunogen Catalog Number: AG6356	Observed MW: 116 kDa	

Applications

Tested Applications: IHC, WB, 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, 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	

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

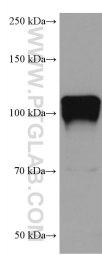
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

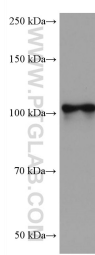
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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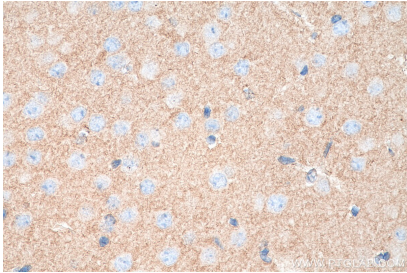
Selected Validation Data



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).