

For Research Use Only

SYNGR1 Monoclonal antibody

Catalog Number: 68176-1-Ig



Basic Information

Catalog Number:	68176-1-Ig	GenBank Accession Number:	BC000731	Purification Method:	Protein G purification
Size:	150ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI):	9145	CloneNo.:	2H2H1
Source:	Mouse	UNIPROT ID:	O43759	Recommended Dilutions:	WB 1:5000-1:50000 IHC 1:500-1:2000 IF-P 1:200-1:800
Isotype:	IgG1	Full Name:	synaptogyrin 1		
Immunogen Catalog Number:	AG31309	Calculated MW:	25 kDa		
		Observed MW:	29 kDa		

Applications

Tested Applications:

WB, IHC, IF-P, ELISA

Species Specificity:

human, mouse, rat, pig, rabbit

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 retina tissue, pig brain tissue, rabbit brain tissue, rat brain tissue, mouse brain tissue

IHC : rat brain tissue,

IF-P : mouse brain tissue,

Background Information

Synaptogyrins are one of the most abundant vesicle components and are involved in the regulation of neurotransmitter release and synaptic plasticity. Synaptogyrins comprise a family of tyrosine-phosphorylated proteins with three isoforms: two neuronal forms (synaptogyrin-1 and -3) and one ubiquitous form (synaptogyrin-2). The synaptogyrin 1 (SYNGR1) can act as a regulator of Ca²⁺-dependent exocytosis. SYNGR1 protein mutations are associated with schizophrenia and are considered to be positional candidate genes for schizophrenia. (PMID: 10383386; 10595519; 14755516; 14732601; 17049558)

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

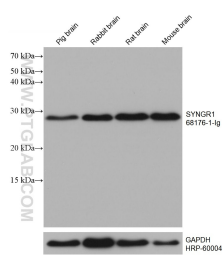
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

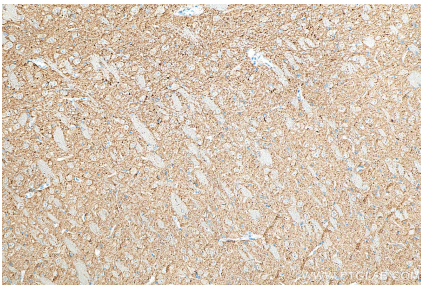
E: proteintech@ptglab.com
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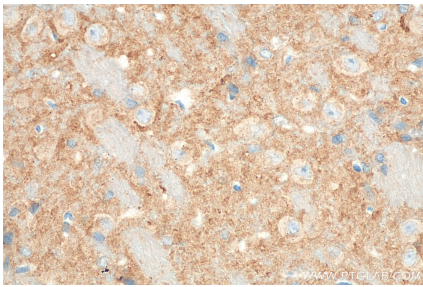
Selected Validation Data



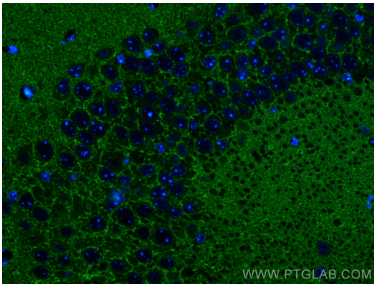
Various lysates were subjected to SDS PAGE followed by western blot with 68176-1-Ig (SYNGR1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



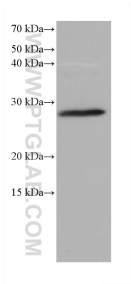
Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 68176-1-Ig (SYNGR1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 68176-1-Ig (SYNGR1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using SYNGR1 antibody (68176-1-Ig, Clone: 2H2H1) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



mouse retina tissue were subjected to SDS PAGE followed by western blot with 68176-1-Ig (SYNGR1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.