

For Research Use Only

Synaptotagmin-1 Monoclonal antibody, PBS Only



Catalog Number: 68043-1-PBS

Basic Information

Catalog Number: 68043-1-PBS	GenBank Accession Number: BC058917	Purification Method: Protein G purification
Size: 1 mg/ml	GeneID (NCBI): 6857	CloneNo.: 1H1H2
Source: Mouse	UNIPROT ID: P21579	
Isotype: IgG1	Full Name: synaptotagmin I	
Immunogen Catalog Number: AG6071	Calculated MW: 48 kDa	
	Observed MW: 60-65 kDa	

Applications

Tested Applications:
WB, Indirect ELISA, IHC

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

Background Information

The synaptotagmins are integral membrane proteins of synaptic vesicles thought to serve as Ca²⁺ sensors in the process of vesicular trafficking and exocytosis (PMID: 8058779). SYT1 (synaptotagmin I) was firstly identified as a 65-kDa protein with a wide distribution in neuronal and neurosecretory tissue (PMID: 7298720). Calcium binding to SYT1 participates in triggering neurotransmitter release at the synapse (PMID: 11242035). In addition to regulating exocytosis, SYT1 has also been implicated in endocytosis and neurite outgrowth (PMID: 15492212; 11078930; 10336114).

Storage

Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS Only

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

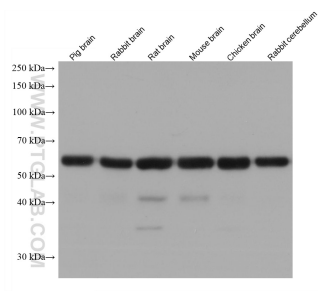
T: 4006900926

E: Proteintech-CN@ptglab.com

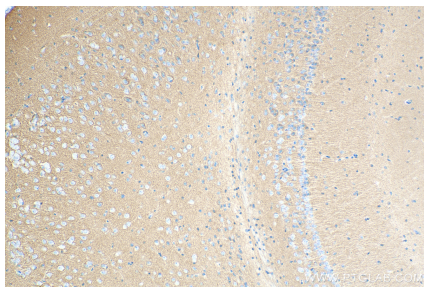
W: ptgcn.com

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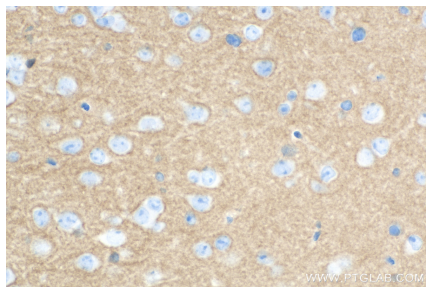
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68043-1-Ig (Synaptotagmin-1 antibody) at dilution of 1:50000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 68043-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 68043-1-Ig (Synaptotagmin-1 antibody) at dilution of 1:5000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 68043-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 68043-1-Ig (Synaptotagmin-1 antibody) at dilution of 1:5000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 68043-1-PBS in a different storage buffer formulation.