

For Research Use Only



# Synaptotagmin-1 Monoclonal antibody, PBS Only

Catalog Number: 68043-1-PBS

## Basic Information

<b>Catalog Number:</b> 68043-1-PBS	<b>GenBank Accession Number:</b> BC058917	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 100ug , Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 6857	<b>CloneNo.:</b> 1H1H2
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P21579	
<b>Isotype:</b> IgG1	<b>Full Name:</b> synaptotagmin I	
<b>Immunogen Catalog Number:</b> AG6071	<b>Calculated MW:</b> 48 kDa	
	<b>Observed MW:</b> 60-65 kDa	

## Applications

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

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

## Background Information

The synaptotagmins are integral membrane proteins of synaptic vesicles thought to serve as Ca(2+) 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

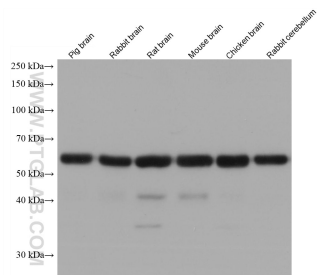
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

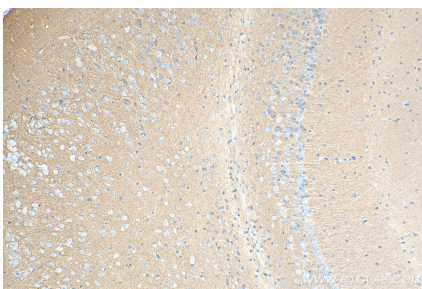
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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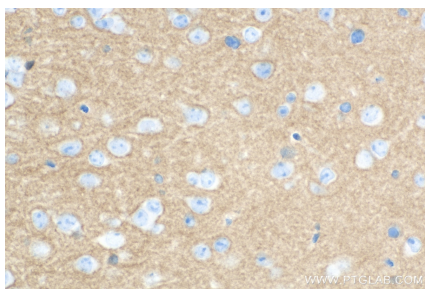
## Selected Validation Data



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.