

For Research Use Only

Synaptotagmin-1 Monoclonal antibody

Catalog Number: 68043-1-Ig **1 Publications**



Basic Information

Catalog Number: 68043-1-Ig	GenBank Accession Number: BC058917	Purification Method: Protein G purification
Size: 150ul , Concentration: 500 ug/ml by Nanodrop;	GeneID (NCBI): 6857	CloneNo.: 1H1H2
Source: Mouse	UNIPROT ID: P21579	Recommended Dilutions: WB 1:20000-1:100000 IHC 1:2500-1:10000
Isotype: IgG1	Full Name: synaptotagmin I	
Immunogen Catalog Number: AG6071	Calculated MW: 48 kDa	
	Observed MW: 60-65 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls: WB : pig brain tissue, rat cerebellum tissue, mouse cerebellum tissue, rabbit brain tissue, rat brain tissue, mouse brain tissue, chicken brain tissue, rabbit cerebellum tissue IHC : mouse brain tissue, mouse cerebellum tissue
Cited Applications: WB	
Species Specificity: Human, Mouse, Rat, Pig, Rabbit, Chicken	
Cited Species: human	
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

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).

Notable Publications

Author	Pubmed ID	Journal	Application
Michael S Biddle	39169954	F1000Res	WB

Storage

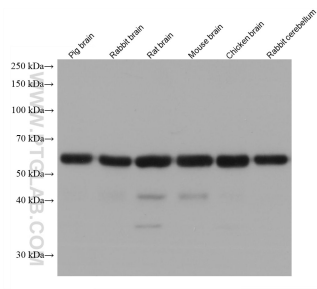
Storage:
Store at -20°C.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

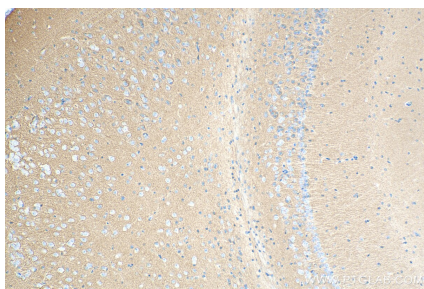
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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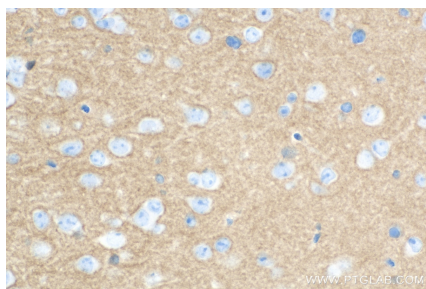
Selected Validation Data



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.



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).



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).