For Research Use Only

Synaptotagmin-1 Polyclonal antibody Catalog Number: 14511-1-AP Featured Product 20 Publications

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Basic Information	Catalog Number: 14511-1-AP	GenBank Accession BC058917	Number:	Purification Method: Antigen affinity purification	
	Size: 150ul , Concentration: 450 ug/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG5970	GeneID (NCBI):		Recommended Dilutions: WB 1:4000-1:20000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:500-1:2000 IF/ICC 1:50-1:500	
Applications	Tested Applications: WB, IHC, IF/ICC, IP, ELISA Cited Applications:	Positive Controls: WB : mouse cerebellum tissue, HCT 116 cells, mouse testis tissue, human liver tissue, Y79 cells			
	WB, IHC, IF, IP		IP : mouse testis tissue, HCT 116 cells		
	Species Specificity:		IHC : rat small	l intestine tissue,	
	human, mouse Cited Species:		IF/ICC : HepG	2 cells, HCT 116 cells	
	human, mouse, rat				
	Note-IHC: suggested antigen (TE buffer pH 9.0; (*) Alternati retrieval may be performed w buffer pH 6.0	vely, antigen			
Background Information	process of vesicular trafficking and e 65-kDa protein with a wide distributi SYT1 participates in triggering neuro exocytosis, SYT1 has also been impli	xocytosis (PMID: 8058 ion in neuronal and ne transmitter release at icated in endocytosis	8779). SYT1 (syna eurosecretory tiss the synapse (PM and neurite outgr	ptotagmin I) was firstly identified as a ue (PMID: 7298720). Calcium binding to ID: 11242035). In addition to regulating owth (PMID: 15492212; 11078930;	
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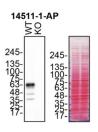
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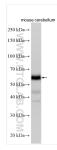
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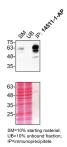
Selected Validation Data



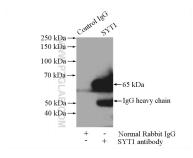
HCT 116 (WT and SYT1 KO) lysates prepared with RIPA buffer, 50 µg protein loaded. 14511-1-AP incubated at 1:500 at 4°C overnight in 5% BSA in TBST. Ponceau stained transfers shown on right. Data provided by YCharOS, an open science company with a mission to validate commercial antibodies to improve scientific reproducibility and transparency.



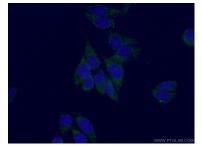
mouse cerebellum tissue was subjected to SDS PAGE followed by western blot with 14511-1-AP (Synaptotagmin-1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



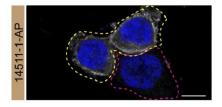
HCT 116 lysates prepared and IP of SYT1 performed using 1.0 μ g of 14511-1-AP coupled to protein A-Sepharose beads. Data provided by YCharOS, an open science company with a mission to validate commercial antibodies to improve scientific reproducibility and transparency.



IP result of anti-Synaptotagmin-1 (IP:14511-1-AP, 4ug; Detection:14511-1-AP 1:500) with mouse testis tissue lysate 4000ug.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using 14511-1-AP (Synaptotagmin-1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



HCT 116 WT cells (yellow outline) and SYT1 KO cells (red outline) labelled with a green or a far red fluorescence dye, respectively. Cells fixed with 4% PFA and stained with 14511-1-AP at 1:500 plus DAPI. Bars = 10 µm. Data provided by YCharOS, an open science company with a mission to validate commercial antibodies to improve scientific reproducibility and transparency.



Immunohistochemical analysis of paraffinembedded rat small intestine tissue slide using 14511-1-AP (Synaptotagmin-1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).