

For Research Use Only

Synaptotagmin-14 Recombinant antibody

Catalog Number: 83923-1-RR



Basic Information

Catalog Number: 83923-1-RR	GenBank Accession Number: NM_153262	Purification Method: Protein A purification
Size: 100ul , Concentration: 750 ug/ml by Nanodrop;	GeneID (NCBI): 255928	CloneNo.: 240866C2
Source: Rabbit	UNIPROT ID: Q8NB59	Recommended Dilutions: WB 1:1000-1:4000 IHC 1:250-1:1000
Isotype: IgG	Full Name: synaptotagmin XIV	
	Calculated MW: 62 kDa	
	Observed MW: 62 kDa	

Applications

Tested Applications:
WB, IHC, FC (Intra), ELISA

Species Specificity:
human, mouse, rat

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 brain tissue, mouse cerebellum tissue, rat brain tissue

IHC : mouse cerebellum tissue,

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). Synaptotagmin-14 (SYT14) is highly expressed in brain tissues. A homozygous mutation of SYT14 is involved in the pathogenesis of spinocerebellar ataxia (SCA) (PMID: 21835308).

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

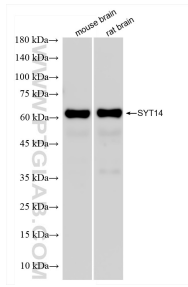
For technical support and original validation data for this product please contact:

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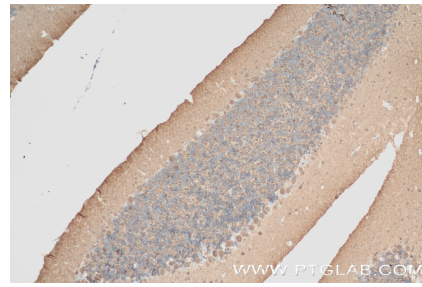
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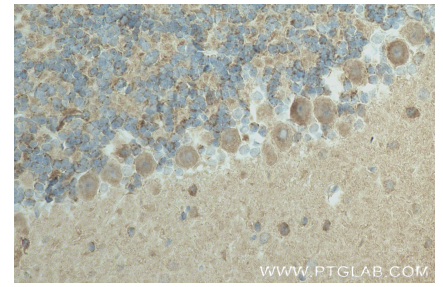
Selected Validation Data



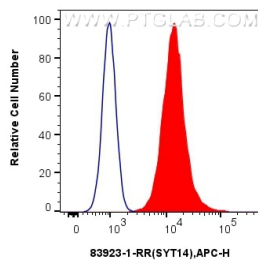
Various lysates were subjected to SDS PAGE followed by western blot with 83923-1-RR (Synaptotagmin-14 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using 83923-1-RR (Synaptotagmin-14 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using 83923-1-RR (Synaptotagmin-14 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1x10⁶ A431 cells were intracellularly stained with 0.25 ug Synaptotagmin-14 Recombinant antibody (83923-1-RR, Clone:240866C2) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).