

Synaptotagmin-3 Polyclonal antibody

Catalog Number: 28667-1-AP

Basic Information

Catalog Number: 28667-1-AP	GenBank Accession Number: BC028379	Purification Method: Antigen affinity purification
Size: 800 µg/ml	GeneID (NCBI): 84258	Recommended Dilutions: WB 1:2000-1:12000 IHC 1:500-1:2000 IF 1:50-1:500
Source: Rabbit	UNIPROT ID: Q9BQG1	
Isotype: IgG	Full Name: synaptotagmin III	
Immunogen Catalog Number: AG30027	Calculated MW: 590 aa, 63 kDa Observed MW: 70-75 kDa	

Applications

Tested Applications:

IF-P, IHC, WB, 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, rat brain tissue

IHC : mouse brain tissue,

IF : mouse brain 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-3 (SYT3) is highly expressed in brain, adipose tissue, and heart (PMID: 30545844). Synaptotagmin-3 is highly enriched in synaptic plasma membranes (PMID: 10373432). It has been reported that synaptotagmin-3 internalizes AMPA receptors to depress synaptic strength and promote forgetting (PMID: 30545844).

Storage

Storage:

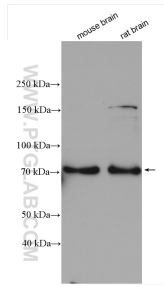
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

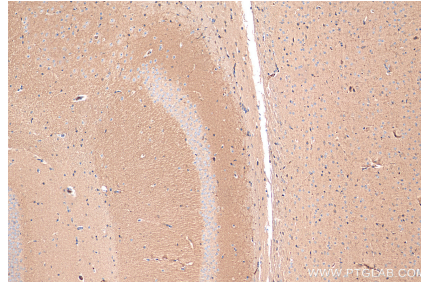
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

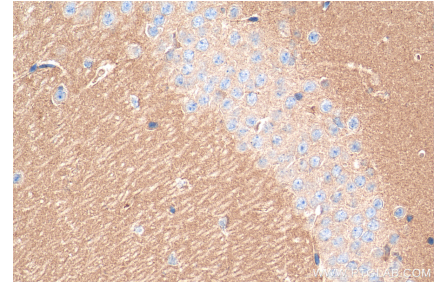
Selected Validation Data



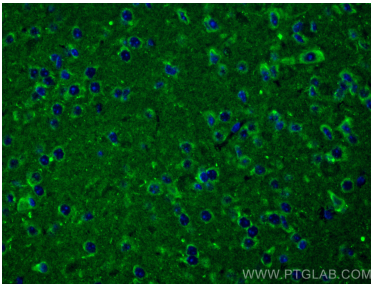
mouse brain tissue and rat brain tissue were subjected to SDS PAGE followed by western blot with 28667-1-AP (Synaptotagmin-3 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 28667-1-AP (Synaptotagmin-3 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 28667-1-AP (Synaptotagmin-3 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using Synaptotagmin-3 antibody (28667-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).