Anti-Synapsin I Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R013739

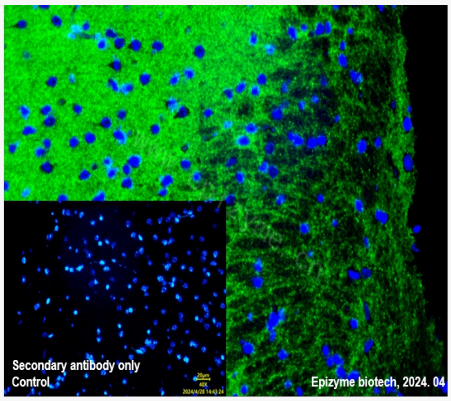
Product Information

Application	IHC-P/IF (Tissue-P), ELISA, WB
Reactivity	Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IHC-P 1:200; IF 1:100
Host	Rabbit
Clonality	Monoclonal
Clone No.	55C13H67
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human Synapsin I
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Synapsin I Rabbit mAb [55C13H67] is for research use only and not for use in diagnostic or therapeutic procedures.

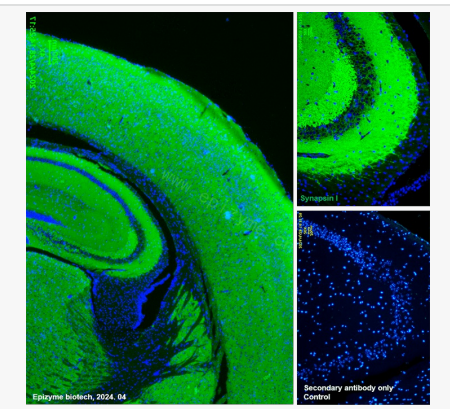
Protein Information

Synonyms	SYNI, SYN1a, SYN1b.
Calculated MW	Calculated MW: 77 kDa; Observed MW: 77 kDa
Uniprot ID	P17600, O88935, P09951
Gene ID	6853, 20964, 24949
Background	This gene is a member of the synapsin gene family. Synapsins encode neuronal phosphoproteins which associate with the cytoplasmic surface of synaptic vesicles. Family members are characterized by common protein domains, and they are implicated in synaptogenesis and the modulation of neurotransmitter release, suggesting a potential role in several neuropsychiatric diseases. This member of the synapsin family plays a role in regulation of axonogenesis and synaptogenesis. The protein encoded serves as a substrate for several different protein kinases and phosphorylation may function in the regulation of this protein in the nerve terminal. Mutations in this gene may be associated with X-linked disorders with primary neuronal degeneration such as Rett syndrome. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]

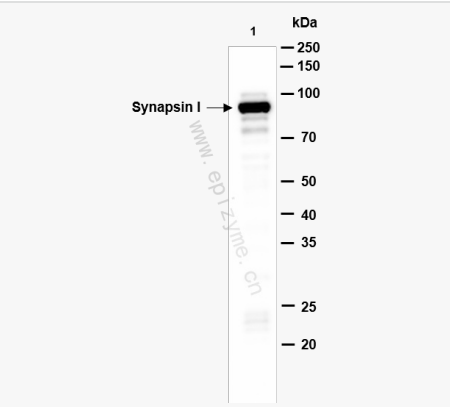
Validation Images



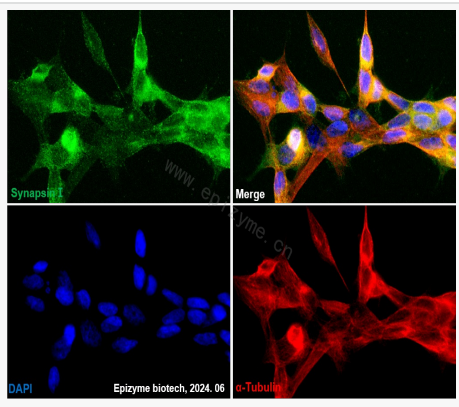
Immunofluorescence - Anti-Synapsin I Rabbit mAb [55C13H67]
Sample: Paraformaldehyde-fixed, paraffin embedded mouse brain tissue (section of callosum)
The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R013739 at 1:100 dilution
Secondary antibody: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green)
Nuclei were stained with DAPI (shown in blue).



Immunofluorescence - Anti-Synapsin I Rabbit mAb [55C13H67]
Sample: Paraformaldehyde-fixed, paraffin embedded mouse brain tissue (section of hippocampus)
The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R013739 at 1:100 dilution
Secondary antibody: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green)
Nuclei were stained with DAPI (shown in blue).



Western Blot - Anti-Synapsin I Rabbit mAb [55C13H67]
All lanes: R013739 at 1:1,000 dilution
Lane 1: Rat brain whole tissue lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 77 kDa
Observed band size: 77 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-Synapsin I Rabbit mAb [55C13H67]
Sample: SY5Y cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibodies: R013739 at 1:100 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution
Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)
Nuclei were stained with DAPI (shown in blue).