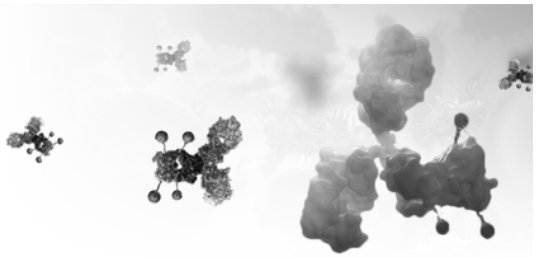

Rabbit Anti-Syn monoclonal antibody, clone TO74-15 (CABT-L737)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Target	Phospho-Synapsin I (S9)
Immunogen	Recombinant protein
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Clone	TO74-15
Purification	Protein A purified.
Conjugate	Unconjugated
Applications	WB, IHC
Molecular Weight	77 kDa
Cellular Localization	Cell junction, Golgi apparatus.
Positive Control	Rat brain tissue, mouse brain tissue.
Format	Liquid
Size	100 µl
Buffer	1×TBS (pH7.4), 1% BSA, 40% Glycerol.
Preservative	0.05% Sodium Azide

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Storage	Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

BACKGROUND

Introduction	Synapsins are synaptic vesicle-associated phosphoproteins that regulate synaptic vesicle exocytosis and may be involved in synaptogenesis. Evidence suggests that Synapsin I, Synapsin II and Synapsin IIIa are ATP-binding proteins that are regulated by Ca2+ and calmodulin binding. Ca2+ has been shown to stimulate ATP binding to Synapsin I, to have no effect on Synapsin II and to inhibit Synapsin III. Synapsin I and Synapsin II both undergo alternative splicing to produce two forms of each protein, Synapsin la and lb and Synapsin IIa and IIb, respectively. Synapsin III gives rise to at least three isoforms: Synapsin IIIa, IIIb and IIIc. Synapsin III plays unique roles both in early axon outgrowth and in the regulation of synaptic vesicle trafficking. In cultured mouse hippocampal neurons, Synapsin III is expressed early during development, with levels peaking seven days after plating and declining thereafter. Synapsin III is highly concentrated in growth cones.
Keywords	Brain protein 4.1;SYN 1;SYN 1a;SYN 1b;SYN I;SYN1;SYN1_HUMAN;SYN1a;SYN1b;Synapsin 1;Synapsin I;Synapsin-1;Synapsin1;SynapsinI;SYNI antibody

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