

Product datasheet

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ARG52426 anti-Synapsin 1 antibody

Package: 50 μl Store at: -20°C

Summary

Product Description Rabbit Polyclonal antibody recognizes Synapsin 1

Tested Reactivity Hu, Ms, Rat

Tested Application ICC/IF, IHC-P, IP, WB

Host Rabbit

Clonality Polyclonal

Isotype IgG

Target Name Synapsin 1

Species Bovine

Immunogen Native protein purified from bovine brain

Conjugation Un-conjugated

Alternate Names SYNI; Brain protein 4.1; Synapsin-1; SYN1a; SYN1b; Synapsin I

Application Instructions

Application table	Application	Dilution
	ICC/IF	1:1000
	IHC-P	1:1000
	IP	5 μl per 200 μg lysate
	WB	1:1000
Application Note	Specific for the ~78k synapsin I doublet in Western blots of Rat brain extracts. Immunolabeling blocked by preadsorption of antibody with the protein used to geneRate the antibody. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid	
Purification	Affinity Purified	
Buffer	10 mM HEPES (pH 7.5), 150 mM NaCl, 0.1 mg/ml BSA and 50% Glycerol	
Stabilizer	0.1 mg/ml BSA, 50% Glycerol	
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.	
Note	For laboratory research only, not for drug, diagnostic or other use.	

Bioinformation

Gene Symbol SYN1 Gene Full Name synapsin I

Background Synapsin I plays a key role in synaptic plasticity in brain (Feng et al., 2002; Nayak et al., 1996). This effect is

due in large part to the ability of the synapsins to regulate the availability of synaptic vesicles for release. In addition to its role in plasticity, the expression of synapsin I is a precise indicator of synapse formation (Moore and Bernstein, 1989; Stone et al., 1994). Thus, synapsin I immunocytochemistry provides a valuable tool for the study of synaptogenesis. The role of synapsin in synaptic plasticity and in synaptogensis is regulated by phosphorylation (Jovanovic et al., 2001; Kao et al., 2002).

Research Area Neuroscience antibody

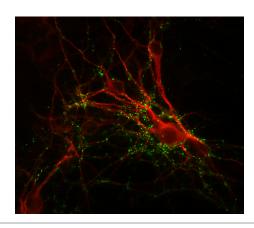
Calculated Mw 74 kDa

PTM Substrate of at least four different protein kinases. It is probable that phosphorylation plays a role in the

regulation of synapsin-1 in the nerve terminal.

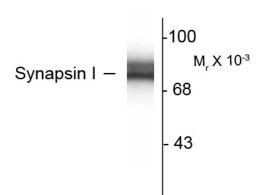
Phosphorylation at Ser-9 dissociates synapsins from synaptic vesicles.

Images



ARG52426 anti-Synapsin 1 antibody ICC/IF image

Immunofluorescence: Cultured Mouse caudate neurons stained with ARG52426 anti-Synapsin 1 antibody (green) at 1:1000 dilution and anti-MAP antibody (red).



ARG52426 anti-Synapsin 1 antibody WB image

Western blot: 10 ug of Rat hippocampal (Hipp) lysate showing specific immunolabeling of the $^{\sim}78k$ synapsin 1 doublet protein stained with ARG52426 anti-Synapsin 1 antibody.