

Datasheet for ABIN361494

anti-SYN1 antibody (pSer62, pSer67)**2** Images**3** Publications[Go to Product page](#)

Overview

Quantity:	100 µL
Target:	SYN1
Binding Specificity:	pSer62, pSer67
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SYN1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser62/67 conjugated to KLH
Specificity:	Specific for ~78k synapsin I doublet phosphorylated at Ser62,67. Immunolabeling of the synapsin I band is blocked by preadsorption with the phospho-peptide used as antigen but not be the corresponding dephospho-peptide..
Cross-Reactivity:	Rat (Rattus)
Predicted Reactivity:	bovine, mouse
Purification:	Antigen Affinity Purified from Pooled Serum

Target Details

Target:	SYN1
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Target Details

Alternative Name: SYN1 ([SYN1 Products](#))

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. The role of synapsin in synaptic plasticity and in synaptogenesis is regulated by phosphorylation (Jovanovic et al., 2001, Kao et al., 2002). Ser 549 along with Ser 62 and Ser 67 are the sites of Synapsin I that are phosphorylated by MAP kinase (Czernik et al., 1987, Jovanovic et al., 1996). Anti-Phospho-Ser62,67 Synapsin Western blot of rat cortex lysate showing specific labeling of the ~78k synapsin protein phosphorylated at Ser 62,67 (Control). Immunolabeling is blocked by preadsorption with the phospho-peptide used as antigen (Peptide) but not by the corresponding dephospho-peptide (not shown).

Molecular Weight: '78 kDa

Gene ID: 281510

UniProt: [P17599](#)

Application Details

Application Notes: Recommended Dilution: WB: 1:1000 Quality Control: Western blots performed on each lot.

Restrictions: For Research Use only

Handling

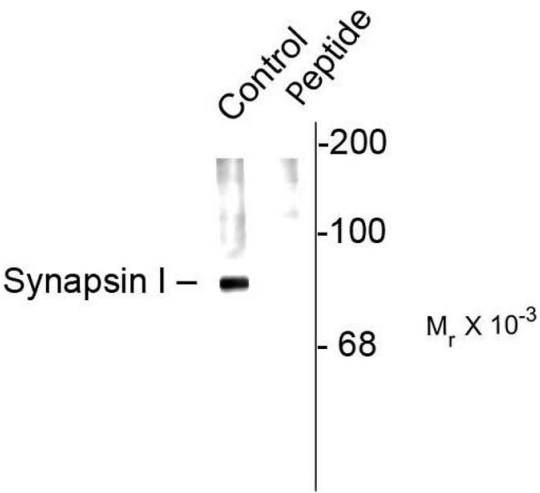
Format: Liquid

Buffer: 100 µL in 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per ml BSA and 50 % glycerol.

Storage: -20 °C

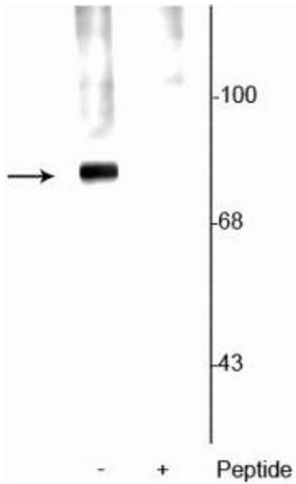
Publications

Product cited in: Yang, Xu, Li, Duan, Fu, Zhang, Zhao, Qiao, Chen, Geng, Che, Cao, Wang, Zhang, Long, He, Cui, Chen, Wang, Liu: "Cloning and characterization of a novel intracellular protein p48.2 that negatively regulates cell cycle progression." in: **The international journal of biochemistry & cell biology**, Vol. 41, Issue 11, pp. 2240-50, (2009) ([PubMed](#)).



Western Blotting

Image 1. Western blots of rat cortex lysate showing specific labeling of the ~78k synapsin protein phosphorylated at Ser 62,67 (Control). Immunolabeling is blocked by preadsorption with the phospho-peptide used as antigen (Peptide) but not by the corresponding dephospho-peptide (not shown).



Western Blotting

Image 2. Western blot of rat cortical lysate showing specific labeling of the ~78 kDa synapsin protein phosphorylated at Ser62,67 in the first lane (-). Phosphospecificity is shown in the second lane (+) where immunolabeling is blocked by preadsorption with the phosphopeptide used as antigen, but not by the corresponding non-phosphopeptide (not shown).