

Anti-Phospho-Ser62,67 Synapsin I Antibody

Product Data Sheet · P/N 74111 Rev 01 · Reissued 2026-09-19 (layout only)

Product code	Pack size
P40029-100	100 µL
Host Species	Rabbit (Polyclonal)
Mr (kDa)	78

Description

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). Ser549 along with Ser62 and Ser67 are the sites of Synapsin I that are phosphorylated by MAP kinase (Czernik et al., 1987; Jovanovic et al., 1996).

Immunogen

Phosphopeptide corresponding to amino acid residues surrounding the phospho- Ser62,67 of synapsin I. 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 by the corresponding dephospho-peptide.

Species Reactivity

The antibody has been directly tested for reactivity in Western blots with rat tissue. It is anticipated that the antibody will react with mouse, and bovine tissues based on the fact that these species have 100% homology with the amino acid sequence used as antigen.

Physical State

Liquid; Buffer contents: 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per mL BSA and 50% glycerol

WB: 1:1000

Purification Method

Prepared from rabbit serum by affinity purification via sequential chromatography on phospho- and dephosphopeptide affinity columns.

Storage/Stability

Stable at -20 °C for at least 1 year.

For long term storage -20 °C is recommended

Shipping Conditions

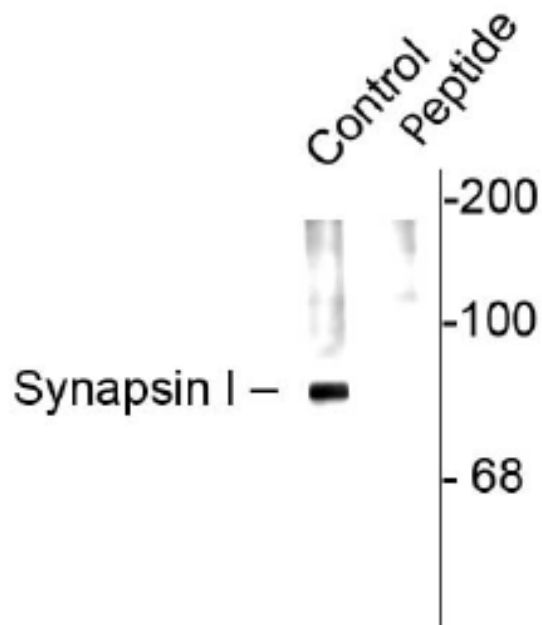
Domestic: Blue Ice

International: Blue Ice or Dry Ice

References

- 1) Czernik AJ et al. (1987) Proc Natl Acad Sci (USA) 84:7518-7522.
- 2) Feng J et al. (2002) J Neurosci 22:4372-4380.
- 3) Jovanovic JN et al. (1996) Neurobiology 93:3679-3683.
- 4) Jovanovic JN et al. (2001) J Neurosci 21:7944-7953.

- 5) Kao HT et al. (2002) Nature Neurosci 5:431-437.
6) Nayak AS et al. (1996) Proc Natl Acad Sci (USA) 93:15451-15456.



Western Blot Rat cortex lysate showing specific labeling of the ~78k synapsin protein phosphorylated at Ser62,67 (Control). Immunolabeling is blocked by preadsorption with the phospho-peptide used as antigen (Peptide) but not by the corresponding dephospho- peptide (not shown).

For research use or further manufacturing only. Not for use in diagnostic procedures, or for human or animal consumption.