

Anti-Synapsin I Antibody

Product Data Sheet · P/N 74109 Rev 01 · Reissued 2026-09-19 (layout only)

Product code	Pack size
P40027-100	100 µL
Host Species	Rabbit (Polyclonal)
Mr (kDa)	78

Description

Synapsin I plays a key role in synaptic plasticity in the 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 synaptogenesis is regulated by phosphorylation (Jovanovic et al., 2001; Kao et al., 2002).

Immunogen

Native protein purified from bovine brain. Specific for the ~78k synapsin I protein doublet. Immunolabeling blocked by preadsorption of the antibody with the protein used to generate the antibody.

Species Reactivity

The antibody has been directly tested for reactivity in Western blots with rat, mouse, and human tissue.

Physical State

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

Purification Method

Prepared from rabbit serum by affinity purification using a column to which the native protein was coupled.

Recommended Antibody Dilutions

WB: 1:1000 1:1000 5 µL per 200 µg lysate IHC/IF:

IP:

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) Feng J et al. (2002) J Neurosci 22:4372-4380.
- 2) Jovanovic JN et al. (2001) J Neurosci 21:7944-7953.
- 3) Kao HT et al. (2002) Nature Neurosci 5:431-437.
- 4) Moore RY et al. (1989) J Neurosci 9:2151-2162.
- 5) Nayak AS et al. (1996) Proc Natl Acad Sci (USA) 93:15451-15456.
- 6) Stone LM et al. (1994) J Neurosci 14:301-309.

