

Anti-Synaptotagmin 1 Antibody

Product Data Sheet · P/N 74114 Rev 01 · Reissued 2026-09-19 (layout only)

Product code	Pack size
P40032-100	100 µL
Host Species	Rabbit (Polyclonal)
Mr (kDa)	65

Description

Synaptotagmin 1 is a synaptic vesicle membrane glycoprotein that is widely expressed throughout the CNS and is generally thought to act as the Ca²⁺ sensor in the regulation of exocytosis and neurotransmitter release (Littleton and Bellen 1995). Recent studies indicate that synaptotagmin's Ca²⁺ mediated binding of SNAP25 is essential for the Ca²⁺ dependent triggering of membrane fusion (Zhang et al., 2002). It has recently been demonstrated that discrete residues within the c(2)b binding domain of synaptotagmin 1 independently specify endocytic rate and synaptic vesicle size (Poskanzer et al., 2006).

Immunogen

Synthetic peptide corresponding to amino acid residues within the synaptotagmin 1 protein.

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 human, mouse, bovine, chicken and non-human primate 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

Purification Method

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

Recommended Antibody Dilutions

WB: 1:1000

Storage/Stability

Stable at -20 °C for at least 1 year.

For long term storage -20 °C is recommended

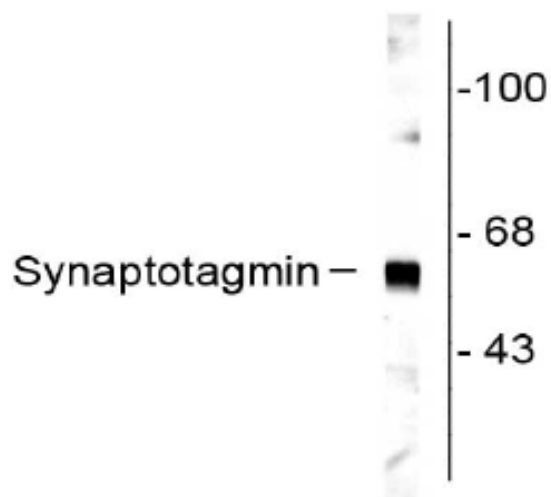
Shipping Conditions

Domestic: Blue Ice

International: Blue Ice or Dry Ice

References

- 1) Littleton JT et al. (1995) Trends Neurosci 18(4):177-83.
- 2) Zhang X et al. (2002) Neuron 34(4):599-611.
- 3) Poskanzer KE et al. (2006) Neuron 50(1):49-62.



Western Blot Rat cortex lysate showing specific labeling of the ~65k synaptotagmin protein.

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