

# Anti-Synapsin (Ser62,67) Antibody

Our Anti-Synapsin (Ser62,67) rabbit polyclonal phosphospecific primary antibody from PhosphoSolution Catalog # AN1563

### Specification

# Anti-Synapsin (Ser62,67) Antibody - Product Information

Primary Accession Reactivity	<u>P17599</u> Bovine
Host	Rabbit
Clonality	Polyclonal
Isotype	lgG
Calculated MW	74518

## Anti-Synapsin (Ser62,67) Antibody - Additional Information

Gene ID

281510

Other Names

Brain protein 4.1 antibody, SYN 1 antibody, SYN 1a antibody, SYN 1b antibody, SYN I antibody, SYN1 antibody, SYN1 antibody, SYN1\_HUMAN antibody, SYN1a antibody, SYN1b antibody, Synapsin 1 antibody,

#### Target/Specificity

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).

#### Format

Antigen Affinity Purified from Pooled Serum

#### Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

#### **Precautions**

Anti-Synapsin (Ser62,67) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Shipping Blue Ice

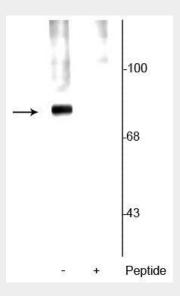
## Anti-Synapsin (Ser62,67) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.



- <u>Western Blot</u>
- <u>Blocking Peptides</u>
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

## Anti-Synapsin (Ser62,67) Antibody - Images



Western blot of rat cortical lysate showing specific labeling of the  $\sim$ 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).

# Anti-Synapsin (Ser62,67) Antibody - 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).