Anti-Synapsin (Ser549)

Overview

Catalog #  p1560-549
Host Species  Rabbit Polyclonal
Format  Antigen Affinity Purified from Pooled Serum
Applications  WB 1:1000  ICC 1:500
Species Tested  Mouse, Rat
Expected Reactivity  Bovine, Canine, Human, Non-Human Primate
Immunogen  Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser549 of rat synapsin, conjugated to keyhole limpet hemocyanin (KLH).
Molecular Weight  78 kDa
Cite this Antibody  PhosphoSolutions Cat# p1560-549, RRID:AB_2492246

Images

Western blot of rat cortical lysate showing specific immunolabeling of the ~78 kDa synapsin I phosphorylated at Ser549 in the first lane (-). Phosphospecificity is shown in the second lane (+) where the immunolabeling is completely eliminated by blot treatment with lambda phosphatase (λ-Ptase, 1200 units for 30 minutes).

Immunostaining of cultured mouse caudate neurons showing synapsin I when phosphorylated at Ser549 (cat # p1560-549, green, 1:500). Cells and photo courtesy of QBMCelScience.
Details

**Target 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). Ser-549 along with Ser-62 and Ser-67 are the sites of synapsin I that are phosphorylated by MAP kinase (Jovanovic et al., 1996). Phosphorylation and subsequent dephosphorylation of this site is thought to play a key role in synaptic vesicle trafficking.

**Specificity**
Specific for endogenous levels of the ~78 kDa synapsin I doublet phosphorylated at Ser549. Immunolabeling is completely eliminated by treatment with λ-phosphatase.

**Production/Purification**
Prepared from pooled rabbit serum by affinity purification via sequential chromatography on phospho and non-phosphopeptide affinity columns.

**Quality Control**
Western blots performed on each lot.

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

**Storage**
Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol.

**Stability**
After date of receipt, stable for at least 1 year at -20°C.

Significant Citations


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