Syt1 (phospho S309) polyclonal antibody

Catalog # PAB9648 Size 100 uL

Applications

Western Blot (Tissue lysate)

Western blot of rat cortex lysate showing specific immunolabeling of the ~60k~62k Syt1 S309 phosphorylated at Ser309 (Control). The phosphospecificity of this labeling is shown in the second lane (lambda-phosphatase: lambda-Ptase). The blot is identical to the control except that it was incubated in lambda-Ptase (1200 units for 30 min) before being exposed to the Syt1 (phospho S309) polyclonal antibody (Cat # PAB9648). The immunolabeling is completely eliminated by treatment with lambda-Ptase.

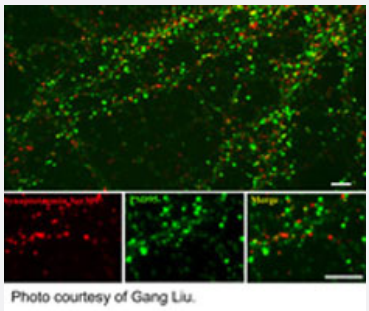
Photo courtesy of Gang Liu.

Immunofluorescence

Syt1 (phospho S309) polyclonal antibody (Cat # PAB9648) and PSD-95 polyclonal antibody (Cat # PAB9623) double-label immunostaining of 14 DIV cortical neurons.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic phosphopeptide of synaptotagmin.
Immunogen	Synthetic phosphopeptide corresponding to residues surrounding S309 of rat synaptotagmin.
Host	Rabbit
Theoretical MW (kDa)	60, 62
Reactivity	Bovine, Chicken, Dog, Human, Mouse, Primates, Rat, Zebra fish
Form	Liquid

Purification	Affinity purification
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	Western Blot (1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 10 mM HEPES, 150 mM NaCl, pH 7.5 (50% glycerol, 10% BSA)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Tissue lysate)

  Western blot of rat cortex lysate showing specific immunolabeling of the ~60k~62k Syt1 S309 phosphorylated at Ser309 (Control). The phosphospecificity of this labeling is shown in the second lane (lambda-phosphatase: lambda-Ptase). The blot is identical to the control except that it was incubated in lambda-Ptase (1200 units for 30 min) before being exposed to the Syt1 (phospho S309) polyclonal antibody (Cat # PAB9648). The immunolabeling is completely eliminated by treatment with lambda-Ptase.

- Immunofluorescence

  Syt1 (phospho S309) polyclonal antibody (Cat # PAB9648) and PSD-95 polyclonal antibody (Cat # PAB9623) double-label immunostaining of 14 DIV cortical neurons.

Publication Reference

- WNK1 phosphorylates synaptotagmin 2 and modulates its membrane binding.

  Lee BH, Min X, Heise CJ, Xu BE, Chen S, Shu H, Luby-Phelps K, Goldsmith EJ, Cobb MH.

  Molecular Cell 2004 Sep; 15(5):741.

- Synaptotagmin I is necessary for compensatory synaptic vesicle endocytosis in vivo.

  Poskanzer KE, Marek KW, Sweeney ST, Davis GW.

  Nature 2003 Dec; 426(6966):559.

- Different domains of synaptotagmin control the choice between kiss-and-run and full fusion.

  Wang CT, Lu JC, Bai J, Chang PY, Martin TF, Chapman ER, Jackson MB.

  Nature 2003 Aug; 424(6951):943.