



Synaptotagmin (Phospho-Ser309) Antibody

#11209

Catalog Number: 11209-1, 11209-2

Amount: 50µg/50µl, 100µg/100µl

Swiss-Prot No. : P21579

Form of Antibody: Rabbit IgG in phosphate buffered saline (without Mg²⁺ and Ca²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

Storage/Stability: Store at -20°C/1 year

Immunogen: The antiserum was produced against synthesized phosphopeptide derived from Human Synaptotagmin around the phosphorylation site of serine 309 (G-L-S_P-D-P).

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.

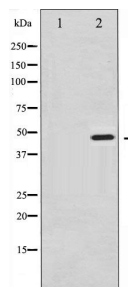
Specificity/Sensitivity: Synaptotagmin(phospho-Ser309) antibody detects endogenous levels of Synaptotagmin only when phosphorylated at serine 309.

Reactivity: Human, Mouse, Rat

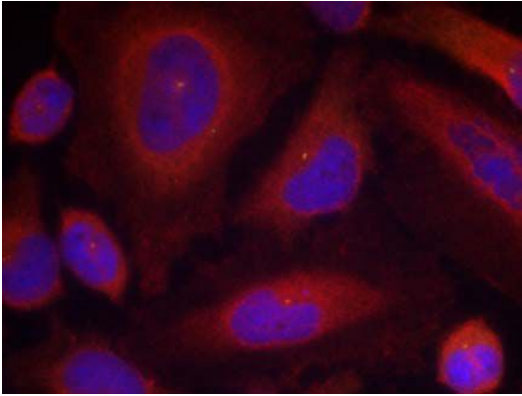
Applications:

Predicted MW: 47 kd

WB: 1:500~1:1000 IHC: 1:50~1:200 IF: 1:100~1:200



Western blot analysis of Synaptotagmin phosphorylation expression in Sobital treated 293 whole cell lysates, The lane on the left is treated with the antigen-specific peptide



Immunofluorescence staining of methanol-fixed HeLa cells using Synaptotagmin (Phospho-Ser309) Antibody (#11209,Red)

Background :

The synaptotagmins are integral membrane proteins of synaptic vesicles thought to serve as Ca^{2+} sensors in the process of vesicular trafficking and exocytosis. Calcium binding to synaptotagmin I participates in triggering neurotransmitter release at the synapse

References:

- Gustavsson N, et al. Proc Natl Acad Sci U S A. 2008 Mar 11; 105(10):3992-7.
- Cnops L, et al. Cereb Cortex. 2008 May; 18(5):1221-31.
- Lynch KL, et al. Mol Biol Cell. 2007 Dec; 18(12):4957-68.