



## Synaptotagmin (Phospho-Ser309) Antibody

#21292

**Catalog Number:** 21292-1, 21292-2

**Amount:** 50µg/50µl, 100µg/100µl

**Swiss-Prot No. :** P21579

**Form of Antibody:** Rabbit IgG in phosphate buffered saline (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), 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 non-phosphopeptide derived from Human Synaptotagmin around the phosphorylation site of serine 309 (G-L-S<sub>P</sub>-D-P).

**Purification:** The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen

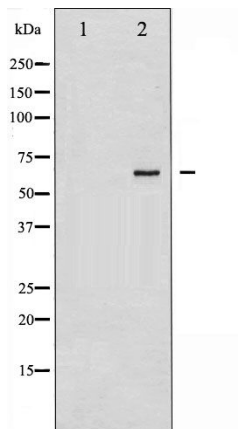
**Specificity/Sensitivity:** Synaptotagmin(Ab-Ser309) antibody detects endogenous levels of total Synaptotagmin protein

**Reactivity:** Human, Mouse, Rat

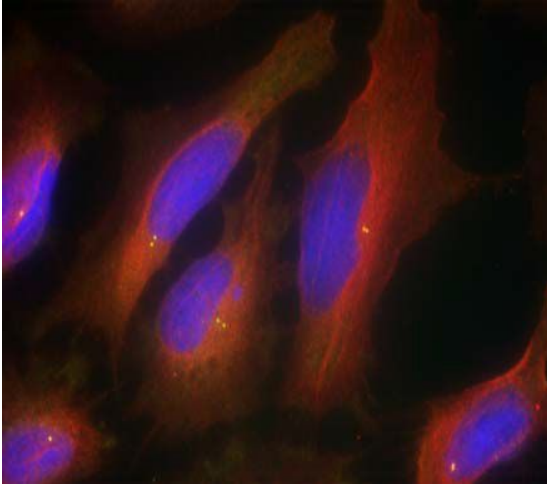
### Applications:

Predicted MW: 65 kd

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



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



Immunofluorescence staining of methanol-fixed HeLa cells using Synaptotagmin (Ab-309) Antibody (#21292,Red)

### **Background :**

The synaptotagmins are integral membrane proteins of synaptic vesicles thought to serve as  $\text{Ca}^{2+}$  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.