

## 35-1621: Polyclonal Antibody to Synaptotagmin 1 (Ab-309)

|                                |  |
|--------------------------------|--|
| <b>Clonality :</b>             | Polyclonal   |
| <b>Application :</b>           | WB,IF  |
| <b>Reactivity :</b>            | Rat,Mouse,Human  |
| <b>Gene :</b>                  | SYT1   |
| <b>Gene ID :</b>               | 6857   |
| <b>Uniprot ID :</b>            | P21579   |
| <b>Format :</b>                | Purified   |
| <b>Alternative Name :</b>      | SYT1, SytI, Synaptotagmin I, P65, SYT  |
| <b>Isotype :</b>               | Rabbit IgG   |
| <b>Immunogen Information :</b> | Peptide sequence around aa.307~311 (G-L-S-D-P) derived from Human Synaptotagmin 1. |

### Description

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

### Product Info

|                            |  |
|----------------------------|--|
| <b>Amount :</b>            | 50 µl / 100 µl   |
| <b>Content :</b>           | Supplied at 1.0mg/mL 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. |
| <b>Storage condition :</b> | Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles.                                |

### Application Note

Predicted MW: 60-65kd, Western blotting: 1:500~1:1000, Immunofluorescence: 1:100~1:200

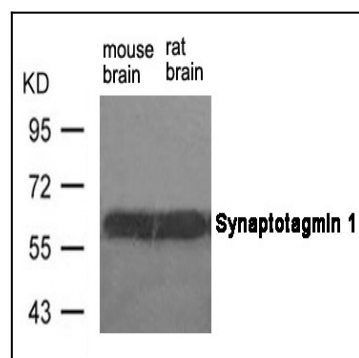


Figure 1: Western blot analysis of extracts from mouse brain and rat brain tissue using Synaptotagmin 1 (Ab-309) Antibody 35-1621 .

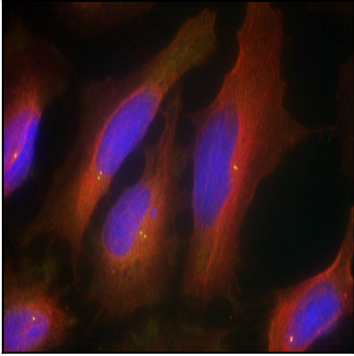


Figure 2: Immunofluorescence staining of methanol-fixed HeLa cells using Synaptotagmin 1 (Ab-309) Antibody 35-1621 .