

## 35-1622: Polyclonal Antibody to Synaptotagmin 1/2 (Ab-202/199)

|                                |                                                                                              |
|--------------------------------|----------------------------------------------------------------------------------------------|
| <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/Q89I0                                                                                 |
| <b>Format :</b>                | Purified                                                                                     |
| <b>Alternative Name :</b>      | SYT1/2, SytI/II, Synaptotagmin I/II, P65, SYT                                                |
| <b>Isotype :</b>               | Rabbit IgG                                                                                   |
| <b>Immunogen Information :</b> | Peptide sequence around aa.200~204/197~201 (R-K-T-L-N) derived from Human Synaptotagmin 1/2. |

### Description

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 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 $\mu\text{l}$ / 100 $\mu\text{l}$                                                                                                                         |
| <b>Content :</b>           | Supplied at 1.0mg/mL in phosphate buffered saline (without $\text{Mg}^{2+}$ and $\text{Ca}^{2+}$ ), 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: 46kd, Western blotting: 1:500~1:1000, Immunofluorescence: 1:100~1:200

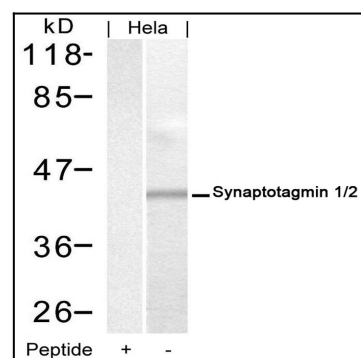


Figure 1: Western blot analysis of extracts from HeLa cells using Synaptotagmin 1/2 (Ab-202/199) Antibody 35-1622 and the same antibody preincubated with blocking peptide.

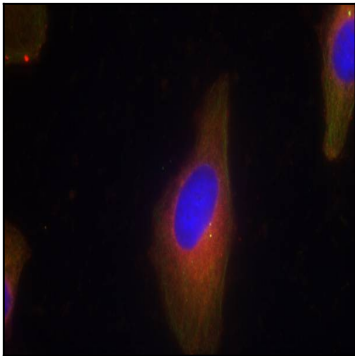


Figure 2: Immunofluorescence staining of methanol-fixed HeLa cells using Synaptotagmin 1/2(Ab-202/199) Antibody 35-1622 .