

## Synaptotagmin 1/2 (Phospho-Thr202/199) Antibody

Catalog No: #11210



Package Size: #11210-1 50ul #11210-2 100ul

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## Description

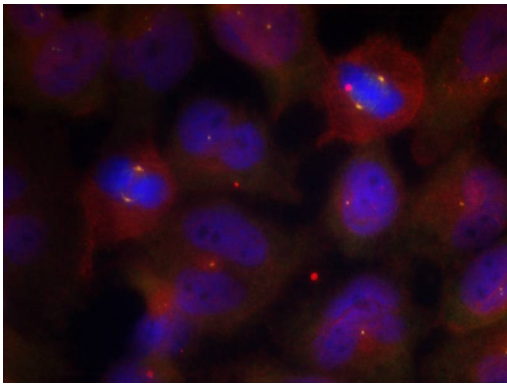
|                       |  |
|-----------------------|--|
| Product Name          | Synaptotagmin 1/2 (Phospho-Thr202/199) Antibody  |
| Host Species          | Rabbit   |
| Clonality             | Polyclonal   |
| Purification          | Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide. |
| Applications          | IF   |
| Species Reactivity    | Hu Ms Rt   |
| Specificity           | The antibody detects endogenous level of Synaptotagmin 1/2 only when phosphorylated at threonine202/199.   |
| Immunogen Type        | Peptide-KLH  |
| Immunogen Description | Peptide sequence around phosphorylation site of threonine 202/199 (R-K-T(p)-L-N) derived from Human Synaptotagmin 1/2.   |
| Target Name           | Synaptotagmin 1/2  |
| Modification          | Phospho  |
| Other Names           | SYT1/2; SytI/II; Synaptotagmin I/II; P65; SYT  |
| Accession No.         | Swiss-Prot:P21579Gene ID:6857  |
| Uniprot               | P21579   |
| GeneID                | 6857;  |
| Concentration         | 1.0mg/ml   |
| Formulation           | 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.   |
| Storage               | Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.  |

## Application Details

Predicted MW: 46kd

Immunofluorescence: 1:100~1:200

## Images



Immunofluorescence staining of methanol-fixed HeLa cells using Synaptotagmin 1/2 (Phospho-Thr202/199) Antibody #11210.

## 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

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.

Note: This product is for in vitro research use only