#21292

# Synaptotagmin (Ab-309) Antibody

**Catalog:** #21292-1 50μl **Orders: order@signalwayantibody.com**
#21292-2 100μl **Support: tech@signalwayantibody.com**
**Storage:** Store at -20°C/1 year **Web: www.signalwayantibody.com**

| Application | Species Reactivity | Source | Molecular Wt. |
|---|---|---|---|
| WB IF | Human Mouse Rat | Rabbit Polyconal Ab | 60-65KD |

**Description:** Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.

**Specificity:** The antibody detects endogenous level of total Synaptotagmin protein.

**Immunogen:** Peptide sequence around aa.307~311 (G-L-S-D-P) derived from Human Synaptotagmin.

**Formulation:** Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

**Synonyms:** SYT1

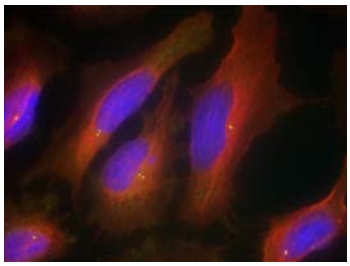
**Accession No.:** Swiss-Prot#: P21579 NCBI Gene#: 6857
NCBI Protein#: NP_001129277.1

**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

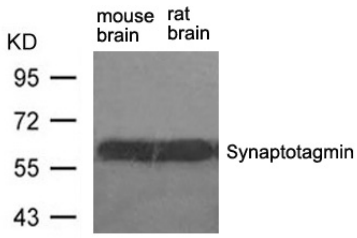
**References:**
Gustavsson N, et al. Proc Natl Acad Sci U S A. 2008 Mar 11; 105(10):3992-7.
Cnops L, et al. Cereb Cortex. 2008 May; 18(5):1221-31.
Lynch KL, et al. Mol Biol Cell. 2007 Dec; 18(12):4957-68.

**Recommended Dilutions:**

| | |
|---|---|
| Western blotting | 1:500~1:1000 |
| Immunofluorescence | 1:100~1:200 |



Immunofluorescence staining of methanol-fixed Hela cells using Synaptotagmin (Ab-309) Antibody #21292.




Western blot analysis of extracts from mouse brain and rat brain tissue using Synaptotagmin (Ab-309) Antibody #21292.

**Citation:**
If you publish research using #21292 please ***let us know***.

**Related Pathway:** Cytoskeletal/Adhesion, Neuroscience

***Note: For western blotting, incubate membrane with diluted antibody in 5% nonfat milk, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.***