

# Synaptotagmin 1 (Ab-309) Antibody

Catalog No: #21292

Package Size: #21292-1 50ul #21292-2 100ul

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## Description

Product Name	Synaptotagmin 1 (Ab-309) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.
Applications	WB IF
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of total Synaptotagmin 1 protein.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around aa.307~311 (G-L-S-D-P) derived from Human Synaptotagmin 1.
Target Name	Synaptotagmin 1
Other Names	SYT1; Sytl; Synaptotagmin I; P65; SYT
Accession No.	Swiss-Prot: P21579NCBI Protein: NP_001129277.1
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.

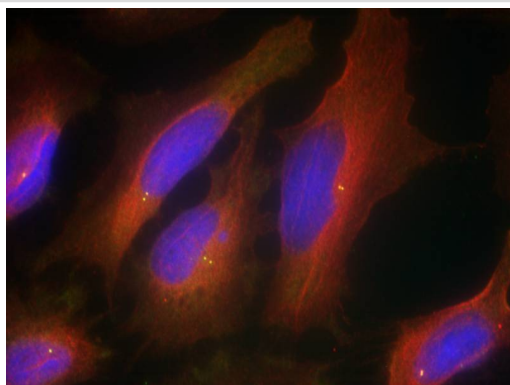
## Application Details

Predicted MW: 60-65kd

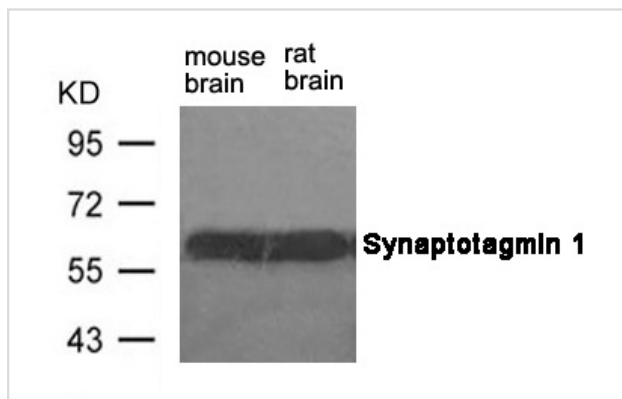
Western blotting: 1:500~1:1000

Immunofluorescence: 1:100~1:200

## Images



Immunofluorescence staining of methanol-fixed HeLa cells using Synaptotagmin 1 (Ab-309) Antibody #21292.



Western blot analysis of extracts from mouse brain and rat brain tissue using Synaptotagmin 1 (Ab-309) Antibody #21292.

## 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 and is not intended for use in humans or animals.