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Datasheet for ABIN6256502

anti-Synaptotagmin antibody (pThr202)

4 Images

Overview

Quantity:	100 µL
Target:	Synaptotagmin (SYT)
Binding Specificity:	pThr202
Reactivity:	Rat, Mouse, Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Synaptotagmin antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	A synthesized peptide derived from human Synaptotagmin around the phosphorylation site of Threonine 202
Isotype:	IgG
Specificity:	Phospho-Synaptotagmin (Thr202) Antibody detects endogenous levels of Synaptotagmin only when phosphorylated at Threonine 202
Cross-Reactivity:	Human, Mouse (Murine), Rat (Rattus)
Purification:	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.

Target Details

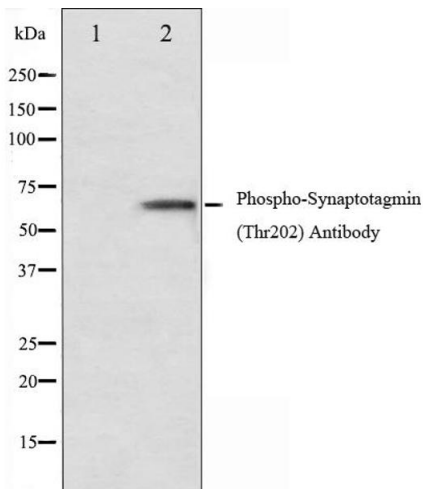
Target:	Synaptotagmin (SYT)
Alternative Name:	Synaptotagmin (SYT Products)
Background:	<p>Description: May have a regulatory role in the membrane interactions during trafficking of synaptic vesicles at the active zone of the synapse. It binds acidic phospholipids with a specificity that requires the presence of both an acidic head group and a diacyl backbone. A Ca²⁺-dependent interaction between synaptotagmin and putative receptors for activated protein kinase C has also been reported. It can bind to at least three additional proteins in a Ca²⁺-independent manner, these are neuexins, syntaxin and AP2. Plays a role in dendrite formation by melanocytes (PubMed:23999003).</p> <p>Gene: SYT1</p>
Molecular Weight:	60kDa
Gene ID:	6857
UniProt:	P21579 , Q8N9I0

Application Details

Application Notes:	WB 1:500-1:2000 IHC 1:50-1:200, IF/ICC 1:100-1:500
Restrictions:	For Research Use only

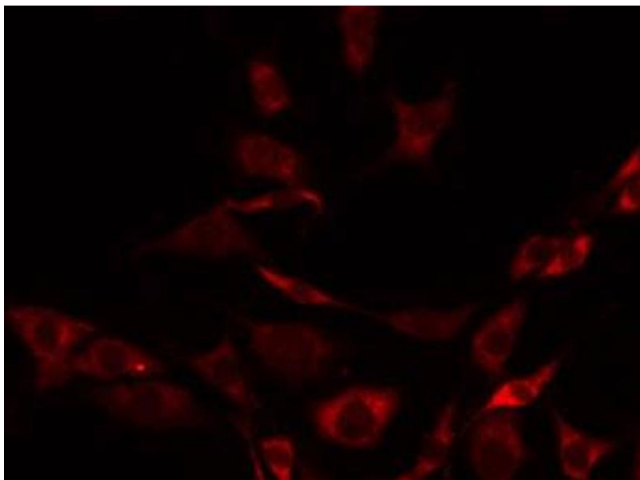
Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20 °C.Stable for 12 months from date of receipt
Expiry Date:	12 months



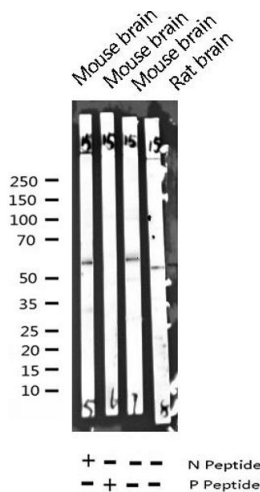
Western Blotting

Image 1. Western blot analysis of Synaptotagmin phosphorylation expression in Forskolin treated 293 whole cell lysates, The lane on the left is treated with the antigen-specific peptide.



Immunofluorescence (fixed cells)

Image 2. ABIN6267435 staining 293 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



Western Blotting

Image 3. Western blot analysis of Phospho-Synaptotagmin (Thr202) expression in various lysates

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN6256502.