www.antibodiesinc.com
orders@antibodiesinc.com
530-758-4400

PRODUCT DATASHEET

Anti-Synaptotagmin (Thr202) Antibody

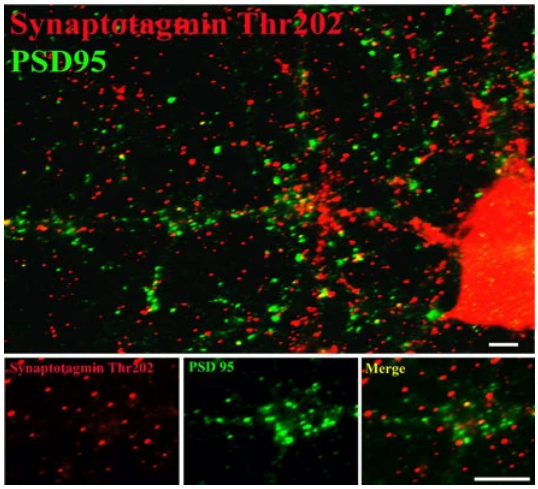
phosphosolutions ANTIBODIES THAT WORK Pooled Serum

Product Details

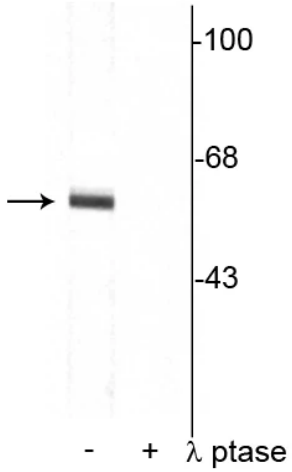
Available Variants	100 µL (SKU:p1570-202) 25 µL (SKU:p1570-202t)
Conjugate	Unconjugated
Isotype	IgG
Gene Name	SYT1
Host Species	Rabbit
Format	Antigen Affinity Purified from Pooled Serum
Physical State	Liquid
Buffer	10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per ml BSA and 50% glycerol.
Production Notes	Prepared from pooled rabbit serum by affinity purification via sequential chromatography on phospho and non-phosphopeptide affinity columns.
Applications	ELISA, ICC, WB
Dilution Ranges	WB: 1:1000 WB Brain: 1:1000 ICC: 1:400
Species Reactivity	Rat
Immunogen	Synthetic phospho-peptide corresponding to amino acid residues surrounding Thr202 of rat synaptotagmin, conjugated to keyhole limpet hemocyanin (KLH).
Specificity	Specific for endogenous levels of the ~62 kDa synaptotagmin protein phosphorylated at Thr 202. Immunolabeling is completely eliminated by treatment with λ-phosphatase.
Molecular Weight	62 kDa
Quality Control	Western blots performed on each lot.

Storage	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.
Antibody Registry ID	AB_2492252
UniProt ID	P21707 UniProt Summary: Calcium sensor that participates in triggering neurotransmitter release at the synapse (By similarity). May have a regulatory role in the membrane interactions during trafficking of synaptic vesicles at the active zone of the synapse (By similarity). It binds acidic phospholipids with a specificity that requires the presence of both an acidic head group and a diacyl backbone. A Ca(2+)-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 Ca(2+)-independent manner; these are neurexins, syntaxin and AP2. Plays a role in dendrite formation by melanocytes (PubMed:23999003). {ECO:0000250|UniProtKB:P46096, ECO:0000269|PubMed:23999003}.
Shipping	Blue Ice
Expiration	After date of receipt, stable for at least 1 year at -20°C.
Usage Statement	For research use only. Not intended for therapeutic or diagnostic use. Use of all products is subject to our terms and conditions, which can be viewed on our website.
Expected Reactivity	Bovine, Canine, Chicken, Human, Non-Human Primate, Mouse, Zebrafish
Post Translational Modification Type	Phosphorylated
Post Translational Modification Residue	Thr202
NCBI Gene ID	25716

Product Images



Immunostaining of 14 DIV rat cortical neurons labeling synaptotagmin when phosphorylated at Thr202 (Cat. p1570-202, 1:400, red) and PSD95 (green). The cortical neurons were fixed with methanol at -20C for 10 minutes. Photo courtesy of Gang Liu.



Western blot of rat cortical lysate showing specific immunolabeling of the ~62 kDa synaptotagmin phosphorylated at Thr202 in the first lane (-). Phosphospecificity is shown in the second lane (+) where the immunolabeling is completely eliminated by blot treatment with lambda phosphatase (λ-Ptase, 1200 units for 30 minutes).