

ARG52437 anti-Synaptotagmin phospho (Thr202) antibody

Package: 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Synaptotagmin phospho (Thr202)
Tested Reactivity	Rat
Predict Reactivity	Hu, Ms, Bov, Chk, Dog, NHuPrm, Zfsh
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Synaptotagmin
Species	Rat
Immunogen	Synthetic phospho-peptide corresponding to amino acid residues surrounding Thr202 conjugated to KLH
Conjugation	Un-conjugated
Alternate Names	P65; Synaptotagmin I; Sytl; SVP65; SYT; p65; Synaptotagmin-1

Application Instructions

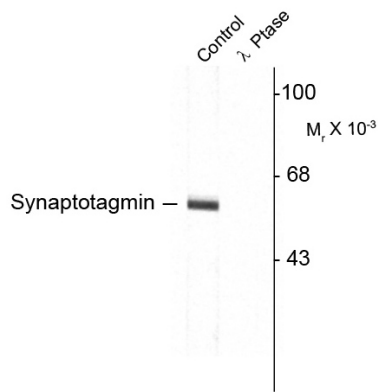
Application table	Application	Dilution
	IHC-P	1:400
	WB	1:1000
Application Note	<p>Specific for the ~60k - 62k synaptotagmin protein phosphorylated at Thr202. The immunolabeling is completely eliminated by λ-phosphatase treatment. In some lysates and/or various tissues, additional bands may be seen at ~ 45k, 75k and 150k.</p> <p>* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.</p>	

Properties

Form	Liquid
Purification	Affinity Purified
Buffer	10 mM HEPES (pH 7.5), 150 mM NaCl, 0.1 mg/ml BSA and 50% Glycerol
Stabilizer	0.1 mg/ml BSA, 50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

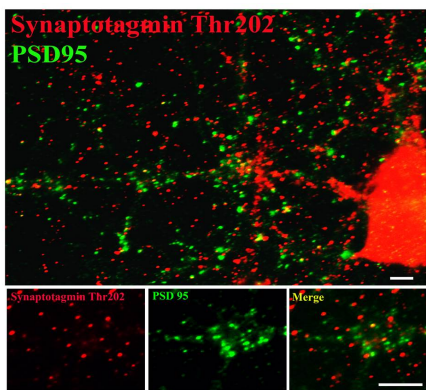
Database links	GeneID: 25716 Rat Swiss-port # P21707 Rat
Gene Symbol	SYT1
Gene Full Name	synaptotagmin I
Background	Synaptotagmin is widely regarded as the primary calcium sensor for synaptic vesicle exocytosis (Fernandez-Chacon et al., 2001; Wang et al., 2003). Moreover, recent studies indicate that the protein also plays a key role in endocytosis (Poskanzer et al., 2003). Synaptotagmin can be phosphorylated by multiple protein kinases and this may play a key role in modulation of synaptotagmin’s ability to influence both the exocytotic and endocytotic components of synaptic transmission (Hilfiker et al., 1999; Lee et al., 2004).
Research Area	Cancer antibody; Metabolism antibody; Neuroscience antibody; Signaling Transduction antibody
Calculated Mw	48 kDa

Images



ARG52437 anti-Synaptotagmin phospho (Thr202) antibody WB image

Western blot: Rat cortex lysate showing specific immunolabeling of the ~62k synaptotagmin phosphorylated at Thr202 (Control) stained with ARG52437 anti-Synaptotagmin phospho (Thr202) antibody. Phosphospecificity is shown in the second lane (lambda-phosphatase: λ-Ptase).



ARG52437 anti-Synaptotagmin phospho (Thr202) antibody IHC image

Immunohistochemistry: 14 DIV Rat cortical neurons showing synaptotagmin when phosphorylated at Thr202 stained with ARG52437 anti-Synaptotagmin phospho (Thr202) antibody in red and PSD95 in green.