ARG52430
anti-Synapsin 1 phospho (Ser62 / Ser67) antibody

Package: 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Synapsin 1 phospho (Ser62 / Ser67)
Tested Reactivity	Ms, Rat
Predict Reactivity	Bov
Tested Application	WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Synapsin 1
Species	Rat
Immunogen	KLH-conjugated phosphospecific peptide around Ser62/67 of Rat Synapsin 1.
Conjugation	Un-conjugated
Alternate Names	SYNI; Brain protein 4.1; Synapsin-1; SYN1a; SYN1b; Synapsin I

Application Instructions

Application table

Application	Dilution
WB	1:1000

Application Note: Specific for ~78k synapsin I doublet phosphorylated at Ser62,67. Immunolabeling of the synapsin I band is blocked by preadsorption with the phospho-peptide used as antigen but not be the corresponding dephospho-peptide..
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

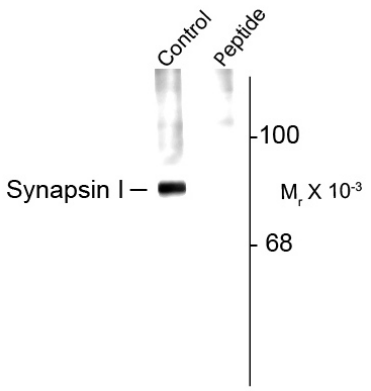
Properties

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.

Bioinformation

Database links	GeneID: 20964 Mouse GeneID: 24949 Rat Swiss-port # O88935 Mouse Swiss-port # P09951 Rat
Gene Symbol	Syn1
Gene Full Name	synapsin I
Background	Synapsin I plays a key role in synaptic plasticity in brain (Feng et al., 2002; Nayak et al., 1996). This effect is due in large part to the ability of the synapsins to regulate the availability of synaptic vesicles for release. The role of synapsin in synaptic plasticity and in synaptogensis is regulated by phosphorylation (Jovanovic et al., 2001; Kao et al., 2002). Ser 549 along with Ser 62 and Ser 67 are the sites of Synapsin I that are phosphorylated by MAP kinase (Czernik et al., 1987; Jovanovic et al., 1996).
Function	Neuronal phosphoprotein that coats synaptic vesicles, binds to the cytoskeleton, and is believed to function in the regulation of neurotransmitter release. [UniProt]
Research Area	Neuroscience antibody
Calculated Mw	74 kDa
PTM	Substrate of at least four different protein kinases. It is probable that phosphorylation plays a role in the regulation of synapsin-1 in the nerve terminal. Phosphorylation at Ser-9 dissociates synapsins from synaptic vesicles.

Images



ARG52430 anti-Synapsin 1 phospho (Ser62 / Ser67) antibody WB image

Western blot: Rat cortex lysate showing specific labeling of the ~78k synapsin protein phosphorylated at Ser 62,67 (Control) stained with ARG52430 anti-Synapsin 1 phospho (Ser62 / Ser67) antibody. Immunolabeling is blocked by preadsorption with the phospho-peptide used as antigen (Peptide) but not by the corresponding dephospho-peptide (not shown).