Product Datasheet

Synapsin I [p Ser549] Antibody - Azide Free
NB300-744-0.1ml

Unit Size: 0.1 ml

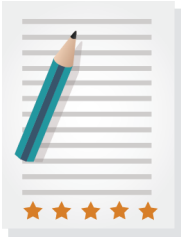
Store at -20C. Avoid freeze-thaw cycles.

www.novusbio.com technical@novusbio.com

Publications: 3

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NB300-744

Updated 9/9/2025 v.20.1



NB300-744-0.1ml

Synapsin I [p Ser549] Antibody - Azide Free

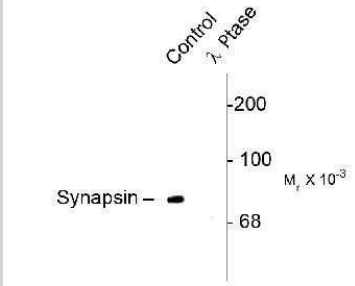
Product Information	
Unit Size	0.1 ml
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	No Preservative
Isotype	IgG
Purity	Antigen Affinity-purified
Buffer	10mM HEPES (pH 7.5), 0.15M NaCl, 0.1 mg/ml BSA and 50% Glycerol
Target Molecular Weight	78 kDa

Product Description	
Description	Novus Biologicals Rabbit Synapsin I [p Ser549] Antibody - Azide Free (NB300-744) is a polyclonal antibody validated for use in WB and ICC/IF. Anti-Synapsin I Antibody: Cited in 3 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	6853
Gene Symbol	SYN1
Species	Mouse, Rat
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 25463523)
Marker	pre-Synaptic Marker
Specificity/Sensitivity	Specific for endogenous levels of the ~78 kDa synapsin I doublet phosphorylated at Ser549. Immunolabeling is completely eliminated by treatment with lambda-phosphatase.
Immunogen	Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser549 conjugated to KLH. Accession # P17599

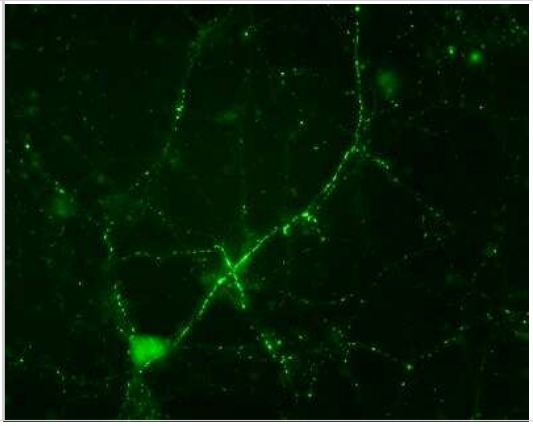
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence
Recommended Dilutions	Western Blot 1:1000, Immunocytochemistry/ Immunofluorescence 1:500

Images

Western Blot: Synapsin I [p Ser549] Antibody [NB300-744] - Western blot of rat brain lysate showing specific immunolabeling of the ~78k synapsin I phosphorylated at Ser549 (Control). The phosphospecificity of this labeling is shown in the second lane (lambda-phosphatase: lambdlambda-Ptase). The blot is identical ot the control except that it was incubated in lambdlambda-Ptase (1200 units for 30 min) before being exposed to the Anti-Phospho Ser549 synapsin I. The immunolabeling is completely eliminated by treatment with lambdlambda-Ptase.



Immunohistochemistry: Synapsin I [p Ser549] Antibody [NB300-744] - Immunostaining of cultured mouse caudate neurons showing synapsin I when hosphorylated at Ser549.



Publications

Provenzano G, Pangrazzi L, Poli A et al. Reduced phosphorylation of synapsin I in the hippocampus of Engrailed-2 knockout mice, a model for autism spectrum disorders. Neuroscience. 2014-11-25 [PMID: 25463523] (IF/IHC, Mouse)

Chan B, Cottrell JR, Li B et al. Development of a High-Throughput AlphaScreen Assay for Modulators of Synapsin I Phosphorylation in Primary Neurons. J Biomol Screen. 2013-10-02 [PMID: 24088370] (WB, Rat)

Cottrell JR, Levenson JM, Kim SH et al. Working Memory Impairment in Calcineurin Knock-out Mice Is Associated with Alterations in Synaptic Vesicle Cycling and Disruption of High-Frequency Synaptic and Network Activity in Prefrontal Cortex. J Neurosci. 2013-07-03 [PMID: 23825400]

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Products Related to NB300-744-0.1ml

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

Limitations
This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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