

Product Datasheet

Synapsin I [p Ser603] Antibody - Azide Free NB300-181

Unit Size: 0.1 ml

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

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NB300-181

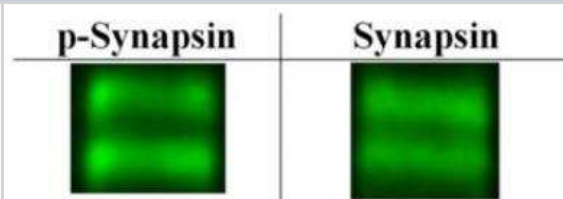
Synapsin I [p Ser603] Antibody - Azide Free

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	
Host	Rabbit
Gene ID	6853
Gene Symbol	SYN1
Species	Human, Mouse, Rat, Guinea Pig
Reactivity Notes	Guinea Pig reactivity reported in (PMID: 29890692). Use in Human reported in secitific publication PMID: 32449987
Marker	pre-Synaptic Marker
Specificity/Sensitivity	Specific for endogenous levels of the ~78 kDa synapsin I doublet phosphorylated at Ser603 . Immunolabeling is completely eliminated by treatment with lambda-phosphatase.
Immunogen	Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser603 conjugated to KLH. Accession # P17599
Product Application Details	
Applications	Western Blot
Recommended Dilutions	Western Blot 1:1000

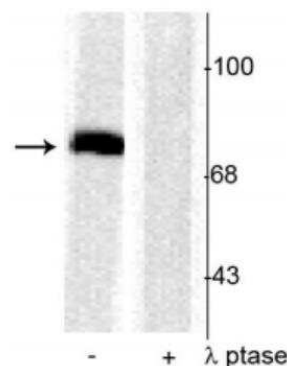


Images

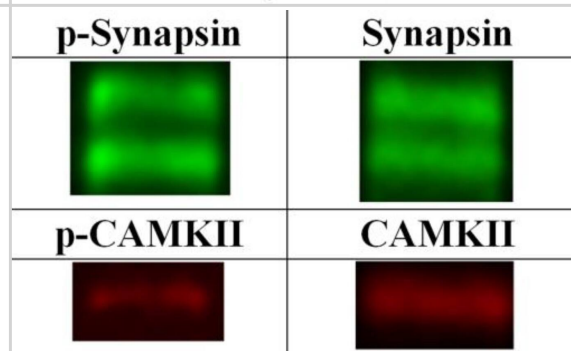
Western Blot: Synapsin I [p Ser603] Antibody [NB300-181] - The figure depicts Western blots of the two synaptic plasticity markers investigated. The two bands seen in the p-synapsin and synapsin Western blots (70 and 74 kDa respectively) are consistent with splice variants. Image collected and cropped by CiteAb from the following publication (<https://www.mdpi.com/2072-6643/10/6/749>) licensed under a CC-BY license.



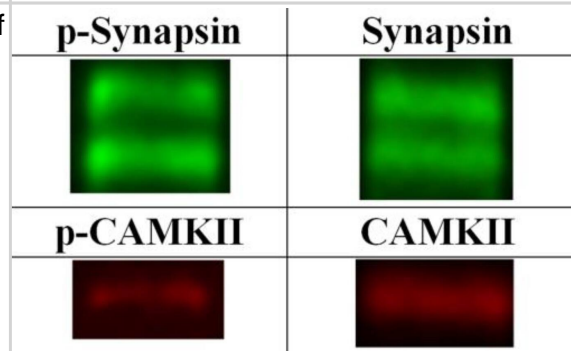
Western Blot: Synapsin I [p Ser603] Antibody [NB300-181] - Rat cortical lysate showing specific immunolabeling of the ~78 kDa synapsin I phosphorylated at Ser603 in the first lane (-). Phosphospecificity is shown in the second lane (+) where the immunolabeling is completely eliminated by blot treatment with lambda phosphatase (l-Ptase, 1200 units for 30 minutes).



Examples of Western blots of p-/synapsin 1 and p-/Ca²⁺-calmodulin-dependent kinase II. The figure depicts examples of the Western blots of the four synaptic plasticity markers investigated. The two bands seen in the p-synapsin and synapsin Western blots (70 and 74 kDa respectively) are consistent with splice variants as confirmed by manufacturer. P-CAMKII and CAMKII were detected around 50 kDa in accordance with previous findings.



Western Blot: Synapsin I [p Ser603] Antibody [NB300-181] - Examples of Western blots of p-/synapsin 1 & p-/Ca²⁺-calmodulin-dependent kinase II. The figure depicts examples of the Western blots of the four synaptic plasticity markers investigated. The two bands seen in the p-synapsin & synapsin Western blots (70 & 74 kDa respectively) are consistent with splice variants as confirmed by manufacturer. P-CAMKII & CAMKII were detected around 50 kDa in accordance with previous findings. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/29890692>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Castelli V, Melani F, Ferri C et al. Neuroprotective activities of bacopa, lycopene, astaxanthin, and vitamin B12 combination on oxidative stress-dependent neuronal death J. Cell. Biochem. 2020-05-25 [PMID: 32449987] (WB, Human)

Hansen SN, Jorgensen JMB, NYengaard JR et al. Early Life Vitamin C Deficiency Does Not Alter Morphology of Hippocampal CA1 Pyramidal Neurons or Markers of Synaptic Plasticity in a Guinea Pig Model. Nutrients. 2018-06-08 [PMID: 29890692] (WB, Guinea Pig)

Hansen SN, Ipsen DH, Schou-Pedersen AM et al. Long term Westernized diet leads to region-specific changes in brain signaling mechanisms. Neurosci. Lett. 2018-04-12 [PMID: 29655945] (Guinea Pig)





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Products Related to NB300-181

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
H00006853-Q01-10ug	Recombinant Human Synapsin I GST (N-Term) Protein

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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