

# Product Datasheet

## Synaptojanin 1 Antibody - BSA Free NBP1-87842

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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### Publications: 8

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**NBP1-87842****Synaptojanin 1 Antibody - BSA Free**

<b>Product Information</b>	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.02% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Immunogen affinity purified
<b>Buffer</b>	PBS (pH 7.2) and 40% Glycerol

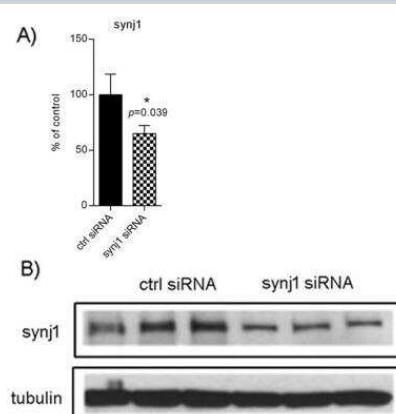
<b>Product Description</b>	
<b>Description</b>	Novus Biologicals Rabbit Synaptojanin 1 Antibody - BSA Free (NBP1-87842) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-Synaptojanin 1 Antibody: Cited in 8 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rabbit
<b>Gene ID</b>	8867
<b>Gene Symbol</b>	SYNJ1
<b>Species</b>	Human, Mouse
<b>Reactivity Notes</b>	Use in Mouse reported in scientific literature (PMID:32356558).
<b>Immunogen</b>	This antibody was developed against Recombinant Protein corresponding to amino acids: ASFGEVILIRFVEDKMWVTFLEGSSALNVLSLNGKELLNRTITIALKSPDWIKNLE EEMSLEKISIALPSSTSSTLLGEDAEVAADFDMEGDVDDYSAEVEELLPQHLQP SSSSGLGTSPSSSPRTSPCQS

<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Knockdown Validated
<b>Recommended Dilutions</b>	Western Blot Reported in scientific literature (PMID: 26372964), Immunohistochemistry 1:1000 - 1:2500, Immunocytochemistry/Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:1000 - 1:2500, Knockdown Validated
<b>Application Notes</b>	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization: Use PFA/Triton X-100.

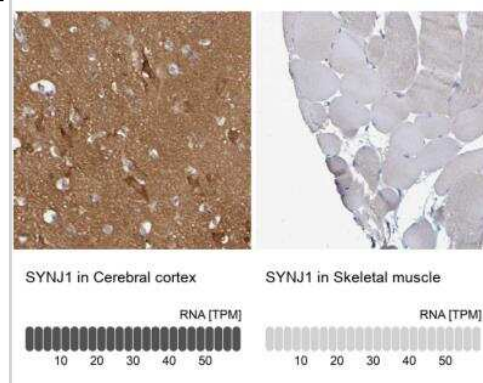


## Images

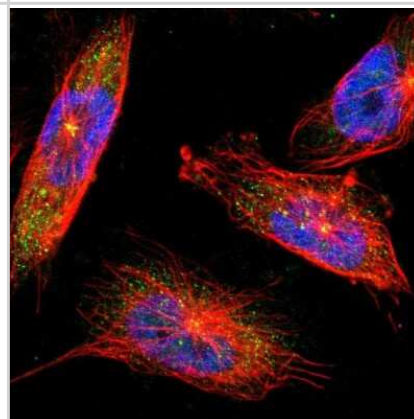
Western Blot: Synaptojanin 1 Antibody [NBP1-87842] - (A) The levels of synj1 protein in N2a cells after synj1 siRNA. Results are presented as % of levels in controls +/- SEM. (B) A representative example of western blot analysis. Image collected and cropped by CiteAb from the following publication (<https://www.nature.com/articles/s41598-017-11654-7>) licensed under a CC-BY license.



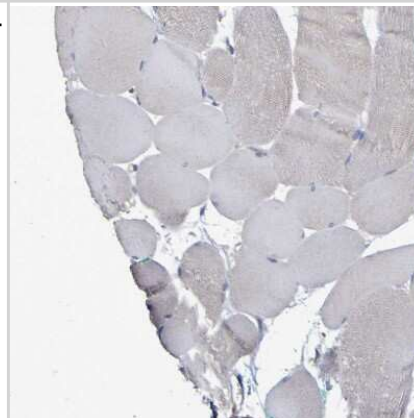
Immunohistochemistry-Paraffin: Synaptojanin 1 Antibody [NBP1-87842] - Analysis in human cerebral cortex and skeletal muscle tissues. Corresponding SYNJ1 RNA-seq data are presented for the same tissues.



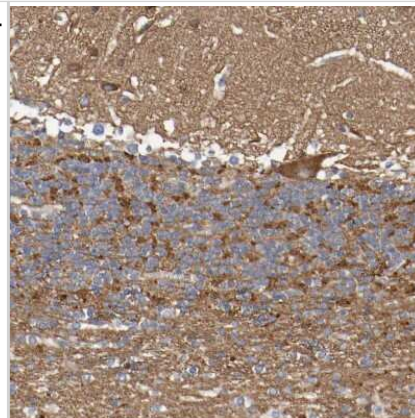
Immunocytochemistry/Immunofluorescence: Synaptojanin 1 Antibody [NBP1-87842] - Staining of human cell line U-251 MG shows localization to nucleoplasm, cytosol and centrosome. Antibody staining is shown in green.



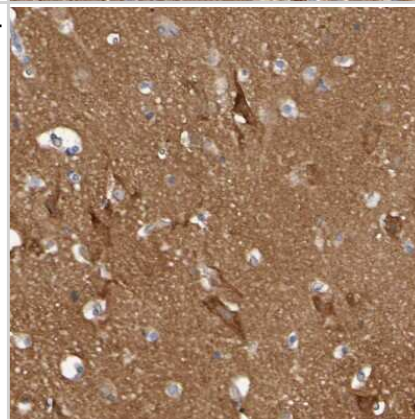
Immunohistochemistry-Paraffin: Synaptojanin 1 Antibody [NBP1-87842] - Staining of human skeletal muscle shows no cytoplasmic positivity in myocytes as expected.



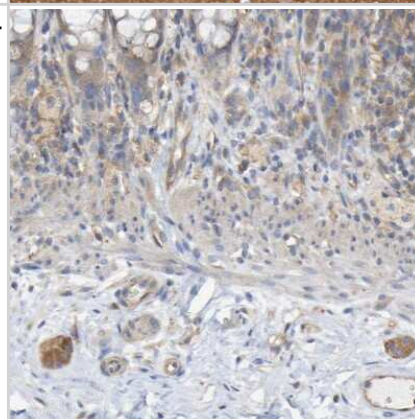
Immunohistochemistry-Paraffin: Synaptojanin 1 Antibody [NBP1-87842] - Staining of human cerebellum shows moderate positivity in neuropil as well as in a subset of neurons.



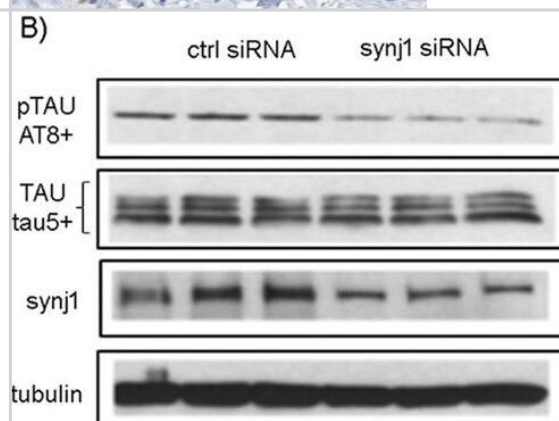
Immunohistochemistry-Paraffin: Synaptojanin 1 Antibody [NBP1-87842] - Staining of human cerebral cortex shows positivity in neuropil as well as moderate to strong cytoplasmic positivity in neurons.



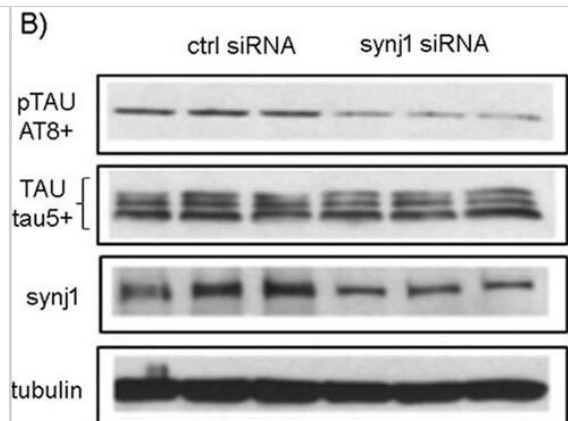
Immunohistochemistry-Paraffin: Synaptojanin 1 Antibody [NBP1-87842] - Staining of human rectum shows moderate cytoplasmic positivity in neurons in peripheral ganglia.



Reduction of pTau with synj1 knockdown in vitro. (A) The levels of pTau, Tau and synj1 protein in N2a cells after synj1 siRNA. Results are presented as % of levels in controls  $\pm$  SEM. (B) A representative example of western blot analysis. (C) PIP2 levels. (D) Immunofluorescence staining of pTau (red) and Tau (green) with (E) quantification.



Western Blot: Synaptojanin 1 Antibody [NBP1-87842] - Reduction of pTau with synj1 knockdown in vitro. (A) The levels of pTau, Tau & synj1 protein in N2a cells after synj1 siRNA. Results are presented as % of levels in controls  $\pm$  SEM. (B) A representative example of western blot analysis. (C) PIP2 levels. (D) Immunofluorescence staining of pTau (red) & Tau (green) with (E) quantification. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/28900205>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Cao J, Huang M, Guo L, Zhu L et al. MicroRNA-195 rescues ApoE4-induced cognitive deficits and lysosomal defects in Alzheimer's disease pathogenesis *Mol Psychiatry* 2020-07-08 [PMID: 32632205]

Toro CA, Hansen J, Siddiq MM et al. Synaptojanin 1 Modulates Functional Recovery After Incomplete Spinal Cord Injury in Male Apolipoprotein E Epsilon 4 Mice *Neurotrauma reports* 2023-07-27 [PMID: 37528868] (IHC-Fr, Mouse)

Pan PY, Zhu J, Rizvi A et al. Synaptojanin1 deficiency upregulates basal autophagosome formation in astrocytes *The Journal of biological chemistry* 2021-06-11 [PMID: 34126070] (WB, Mouse)

Pan PY, Sheehan P, Wang Q et al. Synj1 Haploinsufficiency Causes Dopamine Neuron Vulnerability and alpha-synuclein Accumulation in Mice *Hum. Mol. Genet.* 2020-04-30 [PMID: 32356558] (Mouse)

Kuechler ER, Budzynska PM, Bernardini JP et al. Distinct features of stress granule proteins predict localization in membraneless organelle *J. Mol. Biol.* 2020-02-24 [PMID: 32105731] (ICC/IF, Human)

Pan PY, Li X, Wang J et al. Parkinson's disease associated LRRK2 hyperactive kinase mutant disrupts synaptic vesicle trafficking in ventral midbrain neurons. *J. Neurosci.* 2017-10-20 [PMID: 29054882] (Mouse)

Cao J, Gaamouch FE, Meabon JS et al. ApoE4-associated phospholipid dysregulation contributes to development of Tau hyper-phosphorylation after traumatic brain injury *Sci Rep* 2017-09-12 [PMID: 28900205] (WB, Mouse)

Zhu L, Zhong M, Elder GA et al. Phospholipid dysregulation contributes to ApoE4-associated cognitive deficits in Alzheimer's disease pathogenesis. *Proc. Natl. Acad. Sci. U.S.A.* 2015-09-22 [PMID: 26372964] (WB, Mouse)





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General: novus@novusbio.com

### **Products Related to NBP1-87842**

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NB820-59179	Human Brain Cerebral Peduncles Whole Tissue Lysate (Adult Whole Normal)
NBP1-87842PEP	Synaptojanin 1 Recombinant Protein Antigen
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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### **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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