

# 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

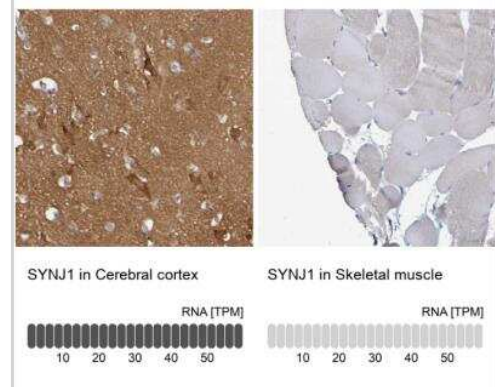
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium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

Product Description	
Host	Rabbit
Gene ID	8867
Gene Symbol	SYNJ1
Species	Human, Mouse
Reactivity Notes	Use in Mouse reported in scientific literature (PMID:32356558).
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: ASFGEVILIRFVEDKMWVTFLEGSSALNVLSLNGKELLNRTITIALKSPDWIKNLE EEMSLEKISIALPSSTSSTLLGEDAEVAADDFMEGDVDDYSAEVEELLPQHLQP SSSSGLGTSPSSSPRTSPCQS

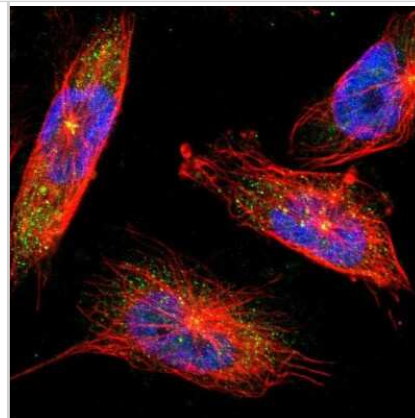
Product Application Details	
Applications	Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Knockdown Validated
Recommended Dilutions	Immunohistochemistry 1:1000 - 1:2500, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:1000 - 1:2500, Knockdown Validated
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization: Use PFA/Triton X-100.

**Images**

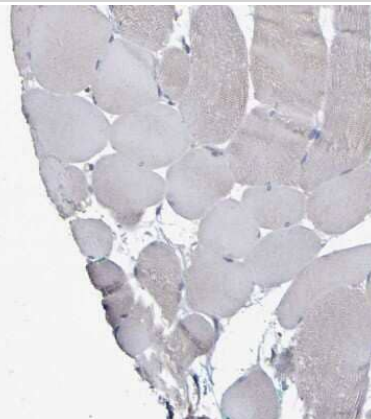
Immunohistochemistry-Paraffin: Synaptojanin 1 Antibody [NBP1-87842] - Analysis in human cerebral cortex and skeletal muscle tissues. Corresponding SYNJ1 RNA-seq data are presented for the same tissues.



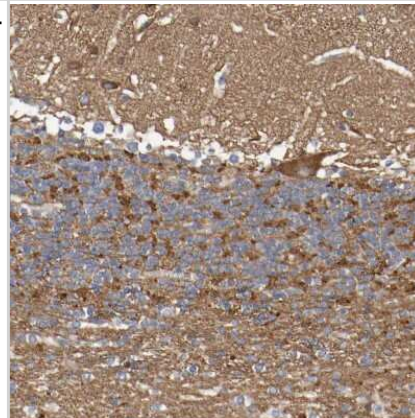
Immunocytochemistry/Immunofluorescence: Synaptojanin 1 Antibody [NBP1-87842] - Staining of human cell line U-251 MG shows localization to nucleoplasm, cytosol and centrosome. Antibody staining is shown in green.



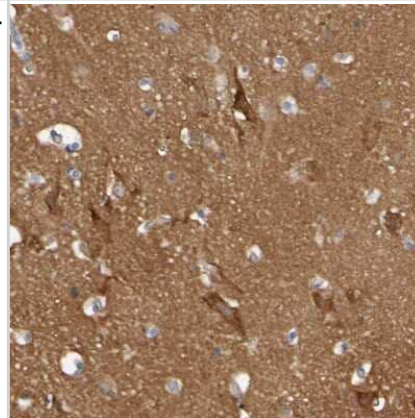
Immunohistochemistry-Paraffin: Synaptojanin 1 Antibody [NBP1-87842] - Staining of human skeletal muscle shows no cytoplasmic positivity in myocytes as expected.



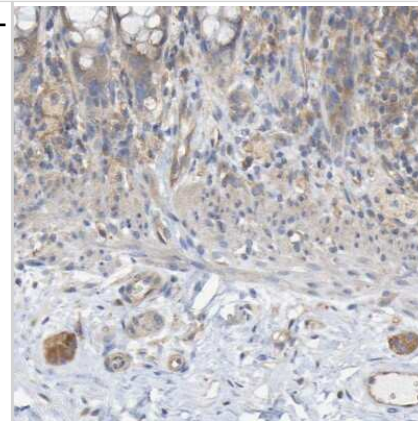
Immunohistochemistry-Paraffin: Synaptojanin 1 Antibody [NBP1-87842] - Staining of human cerebellum shows moderate positivity in neuropil as well as in a subset of neurons.



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.



## 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)



### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

www.novusbio.com  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
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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