

Product Datasheet

Synaptophysin Antibody **NB300-653SS**

Unit Size: 0.025 mg

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

www.novusbio.com



technical@novusbio.com

Reviews: 2 Publications: 12

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NB300-653

Updated 9/9/2025 v.20.1

Earn rewards for product reviews and publications.

Submit a publication at www.novusbio.com/publications

Submit a review at www.novusbio.com/reviews/destination/NB300-653



NB300-653SS

Synaptophysin Antibody

Product Information

Unit Size	0.025 mg
Concentration	Please see the 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	Immunogen affinity purified
Buffer	Tris/Glycine buffer, pH 7.4-7.8, HEPES, BSA 0.5%, glycerol 30%.
Target Molecular Weight	38 kDa

Product Description

Description	Novus Biologicals Rabbit Synaptophysin Antibody (NB300-653) is a polyclonal antibody validated for use in IHC, WB, ELISA, ICC/IF and IP. Anti-Synaptophysin Antibody: Cited in 11 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	6855
Gene Symbol	SYP
Species	Human, Mouse, Rat, Chicken, Feline, Monkey
Reactivity Notes	Feline, Rat reactivity reported from a verified customer review.
Marker	Pre-synaptic marker
Specificity/Sensitivity	This antibody does not cross-react with other synaptic vesicle proteins such as synaptotagmin, GAP45, and SNAP25 proteins.
Immunogen	Synthetic peptide taken within amino acid region 1-100 on human Synaptophysin protein.

Product Application Details

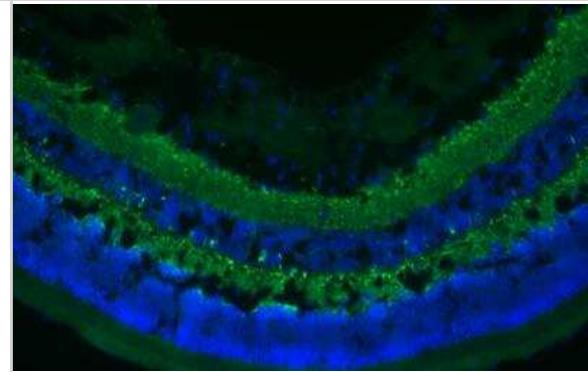
Applications	Western Blot, Immunohistochemistry-Paraffin, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation
Recommended Dilutions	Western Blot 1:500-1:1000, ELISA 1:10000, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence 1:10-1:500, Immunoprecipitation 1:125, Immunohistochemistry-Paraffin 1:10-1:500, Immunohistochemistry-Frozen
Application Notes	Immunofluorescence reactivity reported in (PMID: 21368026). Immunoprecipitation reactivity reported in (PMID: 22970294). Synaptophysin antibody validated for IP, IHC-Frozen from verified customer reviews.

Images

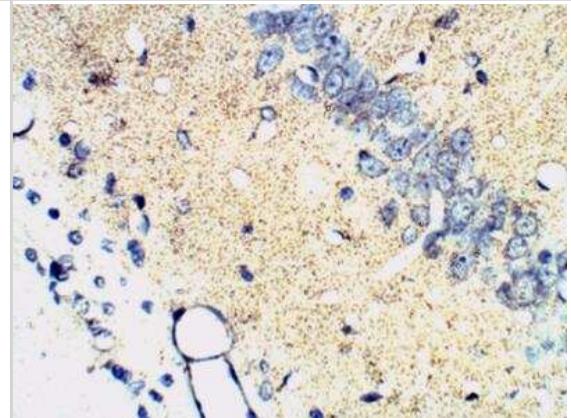
Western Blot: Synaptophysin Antibody [NB300-653] - Approximate MW of Synaptophysin is 39kDa.



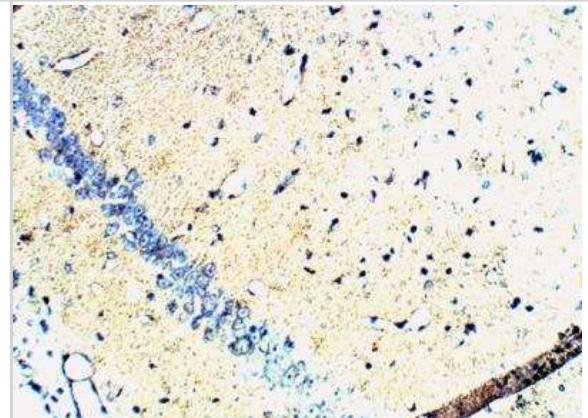
Immunohistochemistry-Frozen: Synaptophysin Antibody [NB300-653] - Feline retina. Synaptophysin (green), DAPI (blue). The image was capture by epifluorescent microscopy. Image from verified customer review.



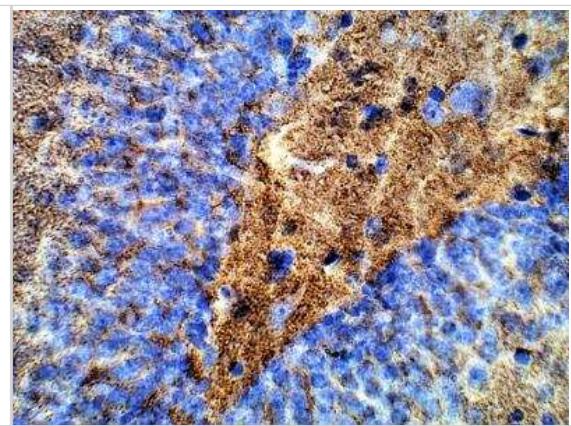
Immunohistochemistry-Paraffin: Synaptophysin Antibody [NB300-653] - Rat brain, 1:100 dilution.



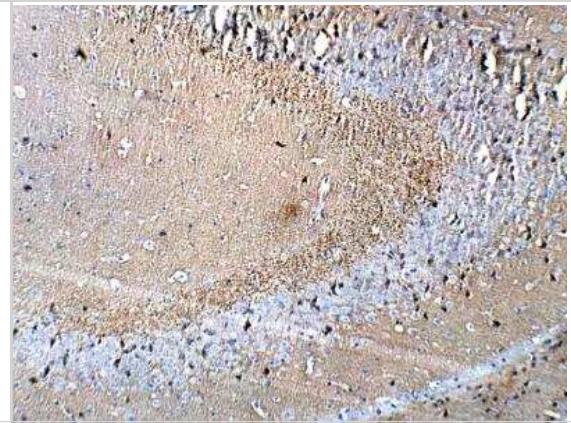
Immunohistochemistry-Paraffin: Synaptophysin Antibody [NB300-653] - Rat brain dilution 1:100



Immunohistochemistry-Paraffin: Synaptophysin Antibody [NB300-653] - 1:00 dilution in IHC blocking buffer. DAB (brown) staining and Hematoxylin QS (blue) counterstain. 40X magnification. FFPE section. Rat brain-Synaptophysin.



Immunohistochemistry-Paraffin: Synaptophysin Antibody [NB300-653] - 1:100 dilution in IHC blocking buffer. DAB (brown) staining and Hematoxylin QS (blue) counterstain. 40X magnification. FFPE section. Mouse Brain- Synaptophysin.



Publications

Kilinc M, Arora V, Creson TK et al. Endogenous Syngap1 alpha splice forms promote cognitive function and seizure protection eLife 2022-04-08 [PMID: 35394425] (Immunocytochemistry/ Immunofluorescence, Mouse)

Lin NH, Goh A, Lin SH et al. Neuroprotective Effects of a Multi-Herbal Extract on Axonal and Synaptic Disruption in Vitro and Cognitive Impairment in Vivo Journal of Alzheimer's disease reports 2023-01-27 [PMID: 36777330]

Smitha Bhaskar, Preethi Sheshadri, Joel P. Joseph, Chandrakanta Potdar, Jyothi Prasanna, Anujith Kumar Mitochondrial Superoxide Dismutase Specifies Early Neural Commitment by Modulating Mitochondrial Dynamics iScience 2020-09-15 [PMID: 33083732]

Sinopoulou E, Rosenzweig ES, Conner JM et al. Rhesus macaque versus rat divergence in the corticospinal projectome Neuron 2022-07-31 [PMID: 35917818]

Kumar S, Orlov E, Gowda P et al. Synaptosome microRNAs regulate synapse functions in Alzheimer's disease NPJ genomic medicine 2022-08-08 [PMID: 35941185] (WB, Mouse)

Erener S, Ellis CE, Ramzy A Et al. Deletion of pancreas-specific miR-216a reduces beta-cell mass and inhibits pancreatic cancer progression in mice Cell reports. Medicine 2021-11-16 [PMID: 34841287]

Kilinc M, Creson TK, Rojas C et al. Splicing of the SynGAP Carboxyl-Terminus Enables Isoform-Specific Tuning of NMDA Receptor Signaling Linked to Cognitive Function bioRxiv 2020-01-01 (WB, Mouse)

Dash PK, Gorantla S, Gendelman HE, et al. Loss of Neuronal Integrity during Progressive HIV-1 Infection of Humanized Mice. J Neurosci. [PMID: 21368026] (ICC/IF, Mouse)

Sui L, Danzl N, Campbell SR et al. Beta Cell Replacement in Mice Using Human Type 1 Diabetes Nuclear Transfer Embryonic Stem Cells Diabetes 2017-09-20 [PMID: 28931519] (Human)

Lam CS, Tipoe GL, Wong JK et al. M30 Antagonizes Indoleamine 2,3-Dioxygenase Activation and Neurodegeneration Induced by Corticosterone in the Hippocampus. PLoS ONE. 2016-11-21 [PMID: 27870896] (WB, Rat)

D'Cruz TS, Weibley BN, Kimball SR, Barber AJ. Post-Translational Processing of Synaptophysin in the Rat Retina Is Disrupted by Diabetes PLoS One 2012-01-01 [PMID: 22970294] (IP, Rat)

Postupna N, Rose SE, Bird TD et al. Novel antibody capture assay for paraffin-embedded tissue detects wide-ranging amyloid Beta and paired helical filament-tau accumulation in cognitively normal older adults Brain Pathol 2012-07-01 [PMID: 21999410] (Human)



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 NB300-653SS

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
H00006855-P01-10ug	Recombinant Human Synaptophysin 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.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

Earn gift cards/discounts by submitting a review: www.novusbio.com/reviews/submit/NB300-653

Earn gift cards/discounts by submitting a publication using this product:
www.novusbio.com/publications