

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.

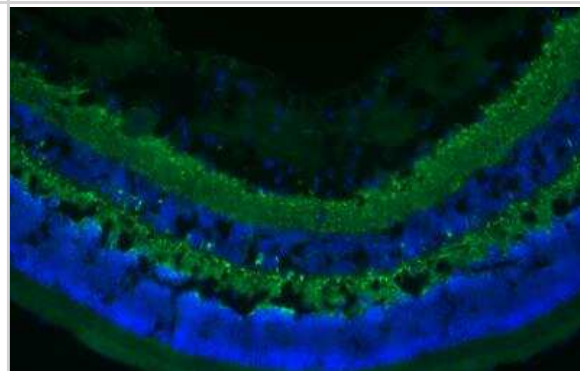


Images

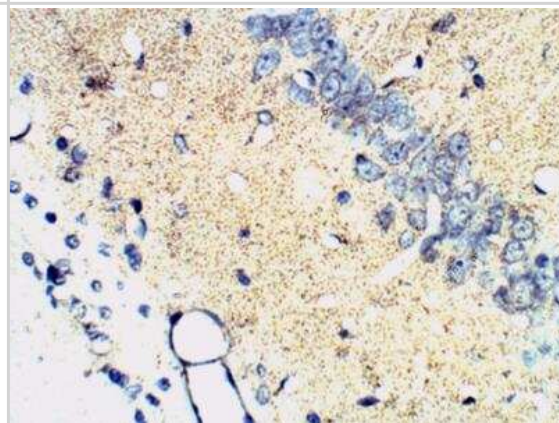
Western Blot: Synaptophysin Antibody [NB300-653] - Approximate MW of Synaptophysin is 39kDa.



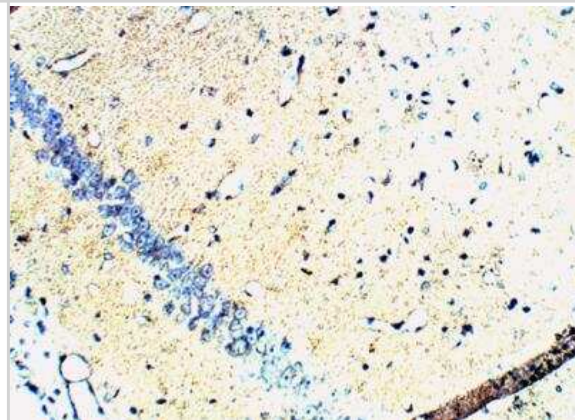
Immunohistochemistry-Frozen: Synaptophysin Antibody [NB300-653] - Feline retina. Synaptophysin (green), DAPI (blue). The image was capture by epifluorescent microscopy. Image from verified customer review.



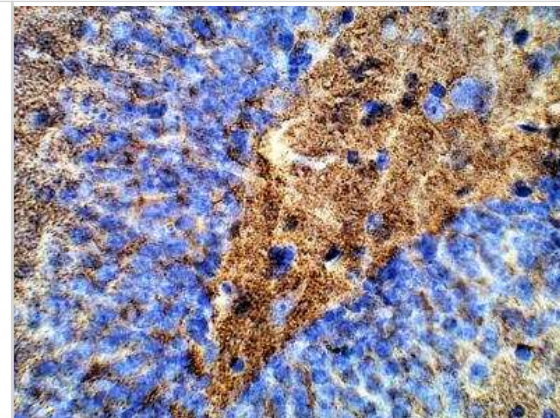
Immunohistochemistry-Paraffin: Synaptophysin Antibody [NB300-653] - Rat brain, 1:100 dilution.



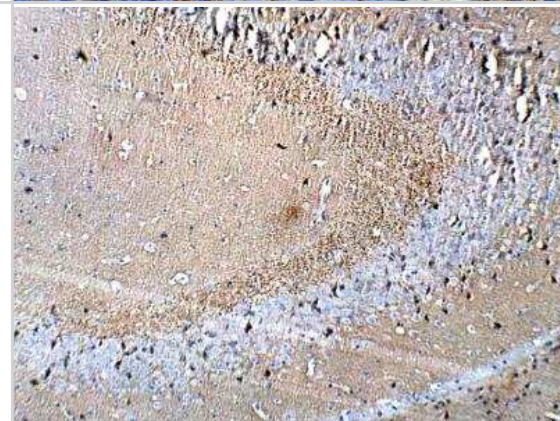
Immunohistochemistry-Paraffin: Synaptophysin Antibody [NB300-653] - Rat brain dilution 1:100



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

