

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.

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NB300-653SS

Synaptophysin Antibody

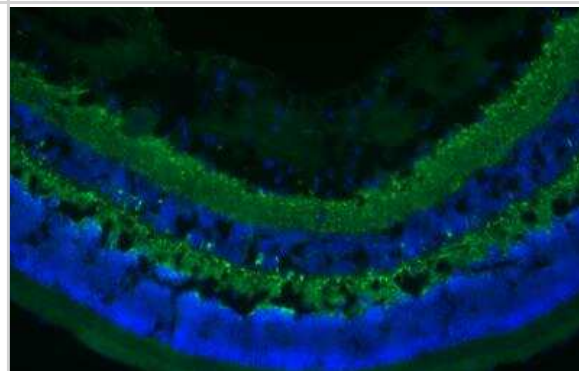
Product Information	
Unit Size	0.025 mg
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	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	
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, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, 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

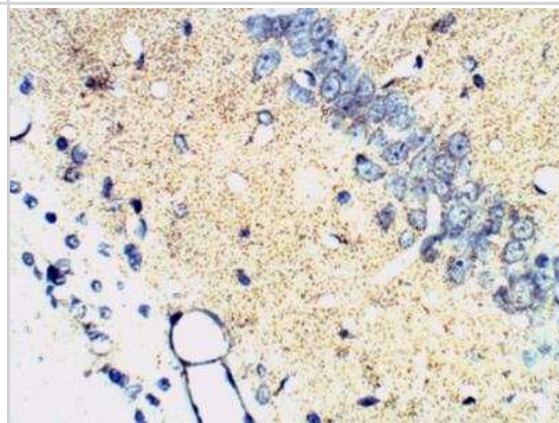
Western Blot: Synaptophysin Antibody [NB300-653] - Approximate MW of Synaptophysin is 39kDa.



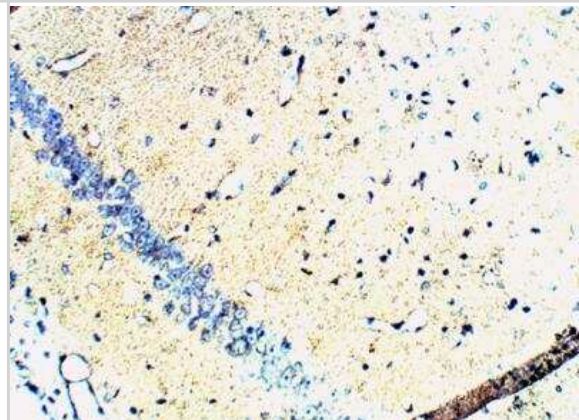
Immunohistochemistry-Frozen: Synaptophysin Antibody [NB300-653] - Feline retina. Synaptophysin (green), DAPI (blue). The image was capture by epifluorescent microscopy. Image from verified customer review.



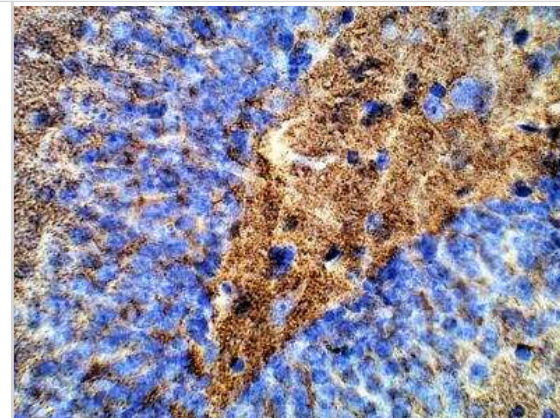
Immunohistochemistry-Paraffin: Synaptophysin Antibody [NB300-653] - Rat brain, 1:100 dilution.



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

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]

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]

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)





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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.

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