

Product Datasheet

Synaptophysin Antibody (SP11)

NB120-16659

Unit Size: 0.5 ml

Store at 4C.

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Publications: 9

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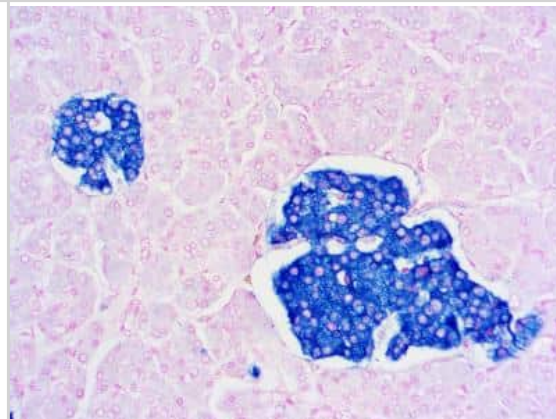


NB120-16659**Synaptophysin Antibody (SP11)**

Product Information	
Unit Size	0.5 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at 4C.
Clonality	Monoclonal
Clone	SP11
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Tissue culture supernatant
Buffer	Tissue culture supernatant
Target Molecular Weight	38 kDa
Product Description	
Description	Novus Biologicals Rabbit Synaptophysin Antibody (SP11) (NB120-16659) is a monoclonal antibody validated for use in IHC and ICC/IF. Anti-Synaptophysin Antibody: Cited in 9 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	6855
Gene Symbol	SYP
Species	Human, Mouse
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 29420126). Not yet tested in other species.
Marker	Pre-synaptic marker
Specificity/Sensitivity	This antibody recognizes a protein of 38kDa, identified as synaptophysin. It labels normal neuroendocrine cells of human adrenal medulla, carotid body, skin, pituitary gland, thyroid, lung, pancreas, gastrointestinal mucosa, Paneth's cells in the gastrointestinal tract and gastric parietal cells. Neurons in the brain, spinal cord, and retina are also labeled. In combination with anti-chromogranin A and anti-NSE, anti-synaptophysin is very useful in the identification of normal neuroendocrine cells and neuroendocrine neoplasms.
Immunogen	Synthetic peptide of human Synaptophysin.
Product Application Details	
Applications	Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Immunohistochemistry 1:25-1:50, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin 1:25-1:50
Application Notes	IHC-P: recommended incubation time of 30-60 min at RT. Use in Immunocytochemistry/immunofluorescence reported in scientific literature (PMID 25483960).

Images

Immunohistochemistry-Paraffin: Synaptophysin Antibody (SP11) [NB120-16659] - Formalin fixed paraffin embedded human pancreas stained with Synaptophysin antibody (NB120-16659).



Publications

Ramzy A, Mojibian M, Kieffer TJ. Insulin deficient mouse b-cells do not fully mature but can be remedied through insulin replacement by islet transplantation. *Endocrinology*. 2017-09-27 [PMID: 29029025]

A Ramzy, DM Thompson, KA Ward-Harts, S Ivson, L Cook, RV Garcia, J Loyal, PTW Kim, GL Warnock, MK Levings, TJ Kieffer Implanted pluripotent stem-cell-derived pancreatic endoderm cells secrete glucose-responsive C-peptide in patients with type 1 diabetes *Cell Stem Cell*, 2021-12-02;28(12):2047-2061.e5. 2021-12-02 [PMID: 34861146]

Iworima DG, Baker RK, Ellis C et al. Metabolic switching, growth kinetics and cell yields in the scalable manufacture of stem cell-derived insulin-producing cells *Stem Cell Res Ther* 2024-01-02 [PMID: 38167219]

Saber N, Ellis CE, Iworima DG et al. The impact of different implantation sites and sex on the differentiation of human pancreatic endoderm cells into insulin-secreting cells in vivo *Diabetes* 2023-02-06 [PMID: 36745576]

Yu N, Wang S, Song X, Gao L. Low-Dose Radiation Promotes Dendritic Cell Migration and IL-12 Production via the ATM/NF-kappaB Pathway. *Radiat. Res.* 2018-02-08 [PMID: 29420126] (Mouse)

Saber N, Bruin JE, O'Dwyer S, Schuster H. Sex differences in maturation of human embryonic stem cell-derived beta cells in mice. *Endocrinology*. 2018-02-05 [PMID: 29420708] (Human)

Bruin JE, Saber N, O'Dwyer S et al. Hypothyroidism impairs human stem cell-derived pancreatic progenitor cell maturation in mice. *Diabetes*. 2016-01-06 [PMID: 26740603]

Bruin JE, Asadi A, Fox JK et al. Accelerated Maturation of Human Stem Cell-Derived Pancreatic Progenitor Cells into Insulin-Secreting Cells in Immunodeficient Rats Relative to Mice. *Stem Cell Reports*. 2015-12-08 [PMID: 26677767] (IHC-P, Human)

Gage BK, Baker RK, Kieffer TJ. Overexpression of PAX4 reduces glucagon expression in differentiating hESCs. Islets. 2014-06-17 [PMID: 25483960] (IHC-P, ICC/IF, Human)



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Products Related to NB120-16659

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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