Product Datasheet

Pancreatic Polypeptide/PP Antibody NB100-1793

Unit Size: 0.1 mg

Store at -20C. Avoid freeze-thaw cycles.

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NB100-1793

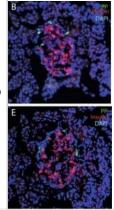
Pancreatic Polypeptide/PP Antibody

Pancreatic Polypeptide/PP Antibody	
Product Information	
Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris saline (20 mM Tris pH 7.3, 150 mM NaCl), 0.5% BSA
Product Description	
Host	Goat
Gene ID	5539
Gene Symbol	PPY
Species	Human, Mouse, Rat, Monkey
Reactivity Notes	Monkey and Mouse reactivity reported from verified customer reviews.
Immunogen	Peptide with sequence C-TRPRYGKRHKEDT corresponding to internal region according to NP_002713.1.
Product Application Details	
Applications	Flow Cytometry, Immunoblotting, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Peptide ELISA
Recommended Dilutions	Flow Cytometry, Immunohistochemistry 5 ug/mL, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin 3 ug/ml, Immunohistochemistry-Frozen 1:500, Immunoblotting, Peptide ELISA Detection limit 1:32000
Application Notes	Use in Immunocytochemistry/immunofluorescence reported in scientific literature (PMID: 23221614). Use in immunoblotting reported in scientific literature (PMID:

Images

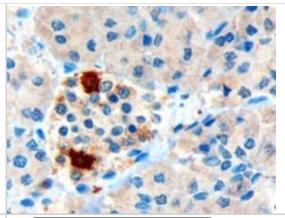
Immunocytochemistry/Immunofluorescence: Pancreatic Polypeptide/PP Antibody [NB100-1793] - Histologic comparison of wild type and Seriola dumerili mouse pancreata. Seriola dumerili Ins2 mice (bottom) have normal islet morphology and cyto-architecture compared to littermates with endogenous mouse Ins 1 and Ins 2 (top); pancreatic polypeptide (green; B,E). Scale bar: 100 um. Image collected and cropped by CiteAb from the following publication (www.nature.com/articles/s41598-019-40768-3) licensed under a CC-BY license.

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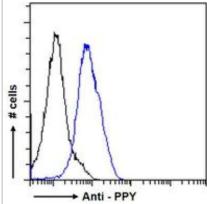




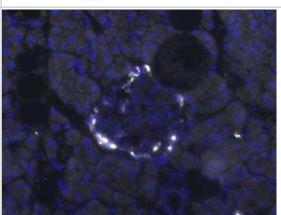
Immunohistochemistry-Paraffin: Pancreatic Polypeptide/PP Antibody [NB100-1793] - Staining of paraffin embedded Human Pancreas with antibody at 3 ug/mL. Microwaved antigen retrieval with Tris/EDTA buffer pH 9, HRP-staining.



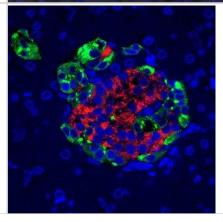
Flow Cytometry: Pancreatic Polypeptide/PP Antibody [NB100-1793] - Flow cytometric analysis of paraformaldehyde fixed U2OS cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10 ug/mL) followed by Alexa Fluor 488 secondary antibody (1 ug/mL). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.



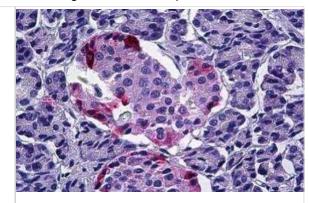
Immunohistochemistry-Frozen: Pancreatic Polypeptide/PP Antibody [NB100-1793] - Analysis of Pancreatic Polypeptide in mouse adult pancreas tissue. IHC-Fr image submitted by a verified customer review.



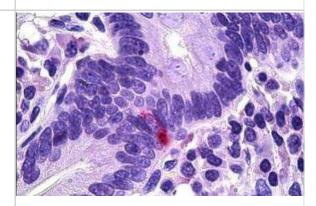
Immunohistochemistry-Paraffin: Pancreatic Polypeptide/PP Antibody [NB100-1793] - Adult macaque pancrease paraffin sections following standard protocols. IHC-P image submitted by a verified customer review.



Immunohistochemistry-Paraffin: Pancreatic Polypeptide/PP Antibody [NB100-1793] - Staining of paraffin embedded Human Pancreas with antibody at 5 ug/mL. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



Immunohistochemistry-Paraffin: Pancreatic Polypeptide/PP Antibody [NB100-1793] - Staining of paraffin embedded Human Intestine with antibody at 5 ug/mL. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



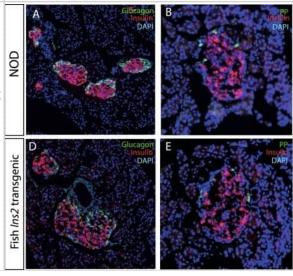
Immunohistochemistry: Pancreatic Polypeptide/PP Antibody [NB100-1793] - Sorted CD133+ cells originate from pancreatic ducts.(A) Schematic diagram of the experimental procedure. Dissociated pancreatic cells were embedded & cultured as previously described (Lawson et al., 2007). Scale bar, 200 μm. (B) Confocal images of CD133 (green) & CPA1 (red) co-staining in adult human pancreas tissue. Scale bar, 20 μm. (C) CEL expression profiles of FACS-sorted human adult pancreatic cells & isolated islets (islet values normalized to 1). Data are presented as mean ± SEM (n=3). (D) Representative immunostaining pictures of sorted cells. Scale bar, 50 μm.DOI:http://dx.doi.org/10.7554/eLife.00940.005 Image collected & cropped by CiteAb from the following publication

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Immunocytochemistry/ Immunofluorescence: Pancreatic Polypeptide/PP Antibody [NB100-1793] - Histologic comparison of wild type & Seriola dumerili mouse pancreata. Seriola dumerili Ins2 mice (bottom) have normal islet morphology & cyto-architecture compared to littermates with endogenous mouse Ins 1 & Ins 2 (top); insulin (red A-F), glucagon (green; A,D), pancreatic polypeptide (green; B,E), & somatostatin (green; C,F). G, H: Beta cell ultra-structure of NOD & Seriola dumerili Ins2 transgenic. Both NOD (G) & Seriola dumerili Ins 2 transgenic (H) islets contain insulin granules (yellow arrow), though Seriola dumerili Ins2 transgenic insulin granules are lighter in staining intensity compared to the NOD (n = 4; zoom in; inset). (I,J) Insulitis scoring pancreata from 12-15 weeks old NOD & Seriola dumerili Ins2 transgenics (n = 4 per group). Scale bar: 100 um. Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/30899071). licensed under a CC-BY license. Not internally tested by Novus Biologicals.





Publications

Tixi W, Maldonado M, Chang YT et al. Coordination between ECM and cell-cell adhesion regulates the development of islet aggregation, architecture, and functional maturation eLife 2023-08-23 [PMID: 37610090]

Wang S The cell autonomous and cell non-automous roles of YAP1 during pancreatogenesis Thesis 2023-01-01

van Gurp L, Fodoulian L, Oropeza D et al. Generation of human islet cell type-specific identity genesets Nature communications [PMID: 35440614] (IHC-P, Human)

Rovira M, Maestro Ma, Grau V, Ferrer J Hnf1b-CreER causes efficient recombination of a Rosa26-RFP reporter in duct and islet delta cells Islets 2021-07-20 [PMID: 34282714]

Tang X, Uhl S, Zhang T et al. SARS-CoV-2 infection induces beta cell transdifferentiation Cell Metabolism 2021-05-01 [PMID: 34081913] (Human)

Foo KS, Skowronski AA, Baum D et al. Transgenic substitution with Greater Amberjack Seriola dumerili fish insulin 2 in NOD mice reduces beta cell immunogenicity Sci Rep 2019-03-21 [PMID: 30899071] (IHC-P, Mouse)

Hara A, Nakagawa Y, Nakao K et al. Development of monoclonal mouse antibodies that specifically recognize pancreatic polypeptide Endocr. J. 2019-03-06 [PMID: 30842364] (ICC/IF, Human)

Hull RL, Gibson RL, McNamara S et al. Islet Interleukin-1beta Immunoreactivity Is an Early Feature of Cystic Fibrosis That May Contribute to beta-Cell Failure. Diabetes Care 2018-04-01 [PMID: 29437698] (Human)

Lu TT, Heyne S, Dror E et al. The Polycomb-Dependent Epigenome Controls b Cell Dysfunction, Dedifferentiation, and Diabetes Cell Metab. 2018-06-05 [PMID: 29754954] (IF/IHC, Mouse)

Kim-Muller Jy, Fan J, Kim Yj et al. Aldehyde dehydrogenase 1a3 defines a subset of failing pancreatic beta cells in diabetic mice. Nat Commun 2016-08-30 [PMID: 27572106] (IF/IHC, IB)

Cinti F, Bouchi R, Kim-Muller JY et al. Evidence of B-cell Dedifferentiation in Human Type 2 Diabetes. J. Clin. Endocrinol. Metab. 2015-12-29 [PMID: 26713822] (IHC-Fr, Human)

Badman MK, Flier JS. The gut and energy balance: visceral allies in the obesity wars. Science 2005-03-25 [PMID: 15790843]

More publications at http://www.novusbio.com/NB100-1793





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 NB100-1793

NB100-1793PEP Pancreatic Polypeptide/PP Peptide

HAF017 Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish

Peroxidase)]

HAF109 Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish

Peroxidase)]

NB410-28088-1mg Goat IgG Isotype Control

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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