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EB06805 - Goat Anti-Pancreatic Polypeptide / PPY Antibody

Size: 100µg specific antibody in 200µl

Target Protein

Principal Names: PPY, pancreatic polypeptide, HGNC:9327, PNP, pancreatic polypeptide Y
Official Symbol: PPY
Accession Number(s): NP_002713.1; NP_001306138.1
Human GeneID(s): 5539

Immunogen

Peptide with sequence C-TRPRYGKRHKEDT, from the internal region of the protein sequence according to NP_002713.1; NP_001306138.1.

Please note the peptide is available for sale.

Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.
Aliquot and store at -20°C. Minimize freezing and thawing.

Applications Tested

Peptide ELISA: antibody detection limit dilution 1:32000.
Western blot: This antibody has been successfully used in WB on Human, PMID: 25445712.
IHC: In paraffin embedded Human Pancreas, shows strong cytoplasmic staining of rare cells located at the periphery of islets of Langerhans. Recommended concentration: 3µg/ml. Paraffin embedded Human Pancreas and Intestine. Recommended concentration: 5µg/ml. This antibody has been successfully used in IHC on Human, PMID: 26700560.

Immunofluorescence: This antibody has been successfully used in IF on Human, PMID: 27300574 and 30687234, and on Rat, PMID: 27472443.

Flow Cytometry: Flow cytometric analysis of U2OS cells. Recommended concentration: 10ug/ml.

Species Reactivity

Tested: Human, Rat
Expected from sequence similarity: Human, Mouse, Rat, Dog

Specific References

This antibody has been successfully used in the following paper:
Hara A, Nakagawa Y, Nakao K, Tamaki M, Ikemoto T, Shimada M, Matsuhisa M, Mizukami H, Maruyama N, Watada H, Fujitani Y
Development of monoclonal mouse antibodies that speci■cally recognize pancreatic polypeptide
Endocr J. 2019 Mar 6. doi: 10.1507/endocrj.EJ18-0441.
PMID: 30842364

This antibody has been successfully used in IF on Human:
Abu Saleh Md Moin, Chiara Montemurro, Kylie Zeng, Megan Cory, Megan Nguyen, Shweta Kulkarni, Helga Fritsch, Juris J. Meier, Sangeeta Dhawan, Robert A. Rizza, Mark

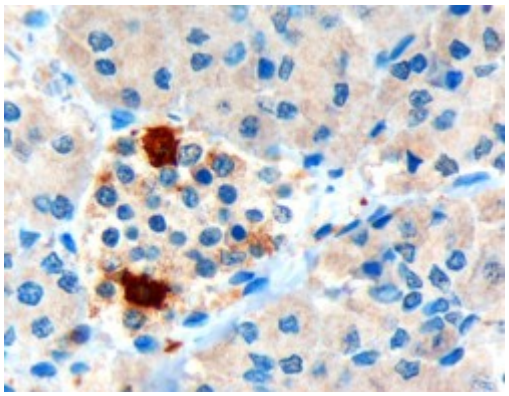
A. Atkinson and Alexandra E. Butler
Characterization of Non-hormone Expressing Endocrine Cells in Fetal and Infant Human Pancreas
Front. Endocrinol., 09 January 2019 | https://doi.org/10.3389/fendo.2018.00791
PMID: 30687234

This antibody has been successfully used in IF on Rat:
Md Moin AS, Dhawan S, Cory M, Butler PC, Rizza RA, Butler AE.
Increased Frequency of Hormone Negative and Polyhormonal Endocrine Cells in Lean Individuals With Type 2 Diabetes.
J Clin Endocrinol Metab. 2016 Oct;101(10)
PMID: 27472443

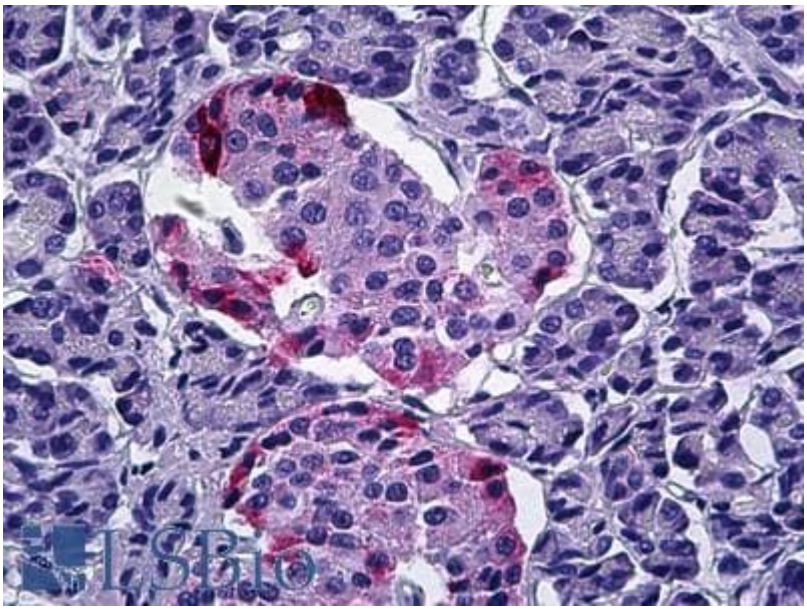
This antibody has been successfully used in IF on Human:
Md Moin AS, Dhawan S, Shieh C, Butler PC, Cory M, Butler AE
Increased Hormone-Negative Endocrine Cells in the Pancreas in Type 1 Diabetes.
J Clin Endocrinol Metab. 2016 Sep;101(9):3487-96.
PMID: 27300574

This antibody has been successfully used in IHC on Human:
Butler AE, Dhawan S, Hoang J, Cory M, Zeng K, Fritsch H, Meier JJ, Rizza RA, Butler PC.
β-Cell Deficit in Obese Type 2 Diabetes, a Minor Role of
β-Cell Dedifferentiation and Degranulation.
J Clin Endocrinol Metab. 2016 Feb;101(2):523-32.
PMID: 26700560

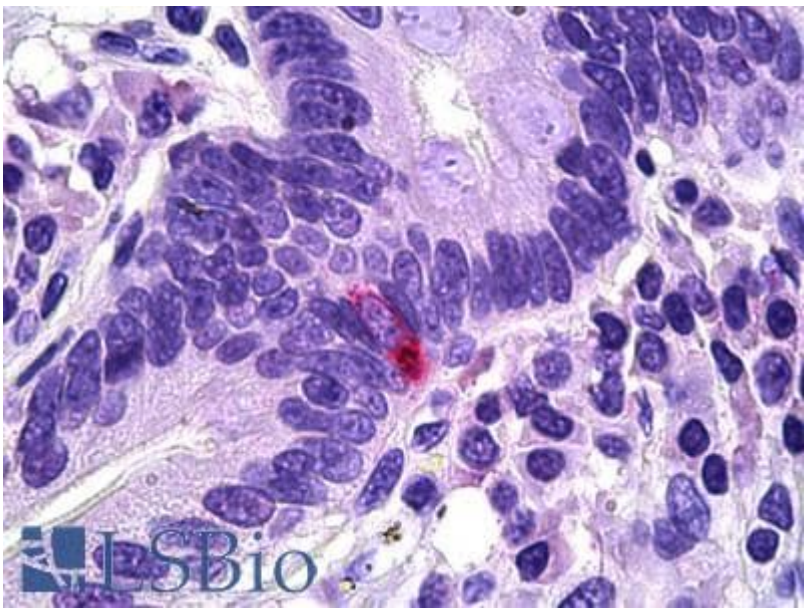
This antibody has been successfully used in Western blot on Human:
F. Aragón, M. Karaca, A. Novials, R.Maldonadoa, P. Maechler, and B. Rubí.
Pancreatic polypeptide regulates glucagon release through PPYR1 receptors expressed in mouse and human alpha-cells.
Biochim Biophys Acta. 2015 Feb;1850(2):343-51.
PMID: 25445712



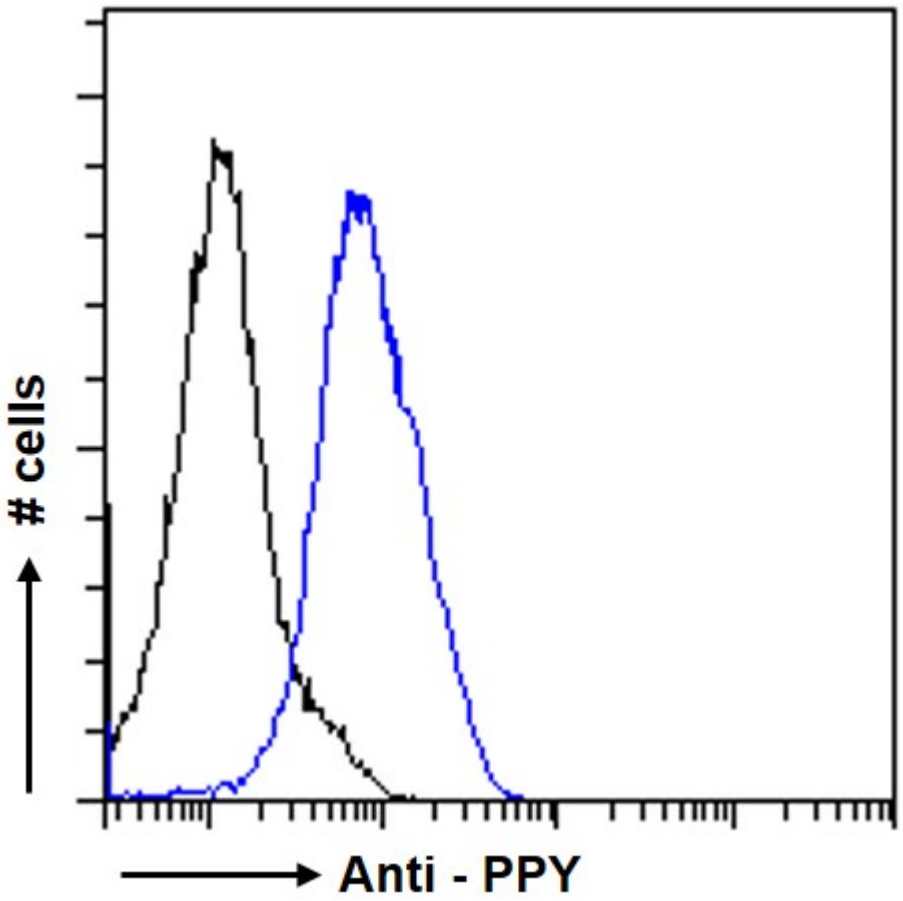
EB06805 (3µg/ml) staining of paraffin embedded Human Pancreas. Microwaved antigen retrieval with Tris/EDTA buffer pH6, HRP-staining.



EB06805 (5µg/ml) staining of paraffin embedded Human Pancreas. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



EB06805 (5µg/ml) staining of paraffin embedded Human Intestine. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



EB06805 Flow cytometric analysis of paraformaldehyde fixed U2OS cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.