Human Pancreatic Polypeptide/PP Antibody

Monoclonal Mouse IgG_1 Clone # 548416

Catalog Number: MAB62971

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Pancreatic Polypeptide/PP in direct ELISAs.
Source	Monoclonal Mouse IgG_1 Clone # 548416
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human Pancreatic Polypeptide/PP Ala30-Leu95 Accession # P01298
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μm filtered solution in PBS.

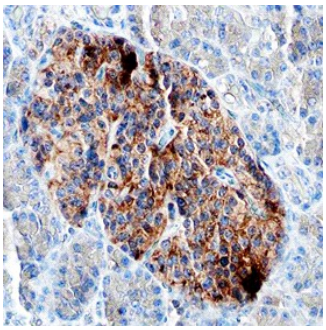
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Immunohistochemistry	8-25 µg/mL	See Below

DATA

Immunohistochemistry



Pancreatic Polypeptide/PP in Human Pancreas. Pancreatic Polypeptide/PP was detected in immersion fixed paraffin-embedded sections of human pancreas using Mouse Anti-Human Pancreatic Polypeptide/PP Monoclonal Antibody (Catalog # MAB62971) at 15 µg/mL overnight at 4 °C. Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). Specific staining was localized to pancreatic islets. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Pancreatic Polypeptide (PP) is an 11 kDa (calculated), unglycosylated member of the Neuropeptide-Y family of secreted peptide hormones. Human PP is synthesized with a 29 amino acid (aa) signal sequence and a 66 aa prohormone that contains the 36 aa PP hormone, a 20 aa icosapeptide of unknown function, and a C-terminal prosequence (1). PP is produced by pancreatic islet F-cells and released to the circulation following a meal. It slows stomach emptying time and insulin secretion and is thought to inhibit further food intake (2). The human PP prohormone shares 57% and 55% aa identity with mouse and rat PP, respectively.

References:

1. Leiter A, *et al.* (1984) J. Biol. Chem. **259**:14702.
2. Asakawa, A *et al.* (2003) Gastroenterology **124**:1325.

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