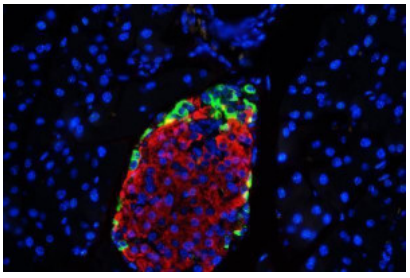
Glucagon Antibody / Pancreatic Hormone Antibody (R31865)

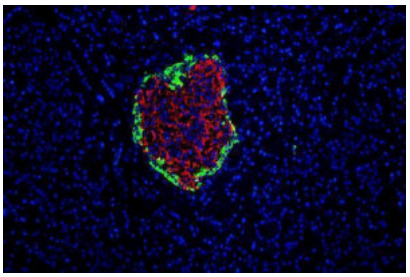
Catalog No.	Formulation	Size
R31865	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

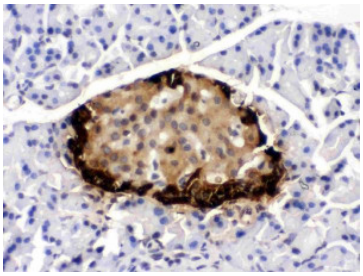
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P01275
Localization	Cytoplasmic
Applications	Immunohistochemistry (FFPE): 0.5-1ug/ml Immunofluorescence: 1-2ug/ml
Limitations	This Glucagon Antibody / Pancreatic Hormone Antibody is available for research use only.



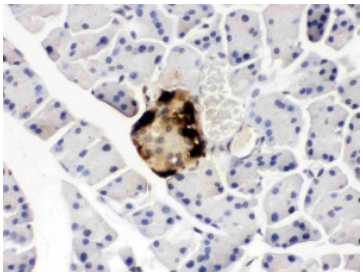
Glucagon Antibody Mouse Pancreas IF. Immunofluorescent staining of FFPE mouse pancreas tissue with Glucagon Antibody (green) at 1 ug/ml and Insulin antibody (red). HIER was performed using pH 6 citrate buffer for 20 minutes prior to staining. The tissue section was incubated with rabbit anti-Glucagon antibody overnight at 4Â°C, followed by fluorescent secondary antibody detection and DAPI nuclear counterstain (blue). Glucagon Antibody / Pancreatic Hormone Antibody demonstrates selective staining of pancreatic alpha cells, distinct from insulin-positive beta cells, and supports studies of GCG expression, islet cell biology and glucose metabolism pathways.



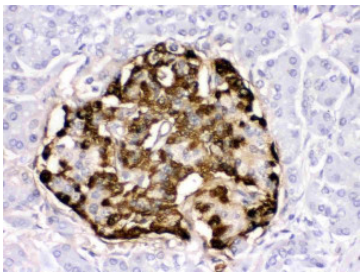
Glucagon Antibody Rat Pancreas IF. Immunofluorescent staining of FFPE rat pancreas tissue with Glucagon Antibody (green) at 1 ug/ml and Insulin antibody (red). HIER was performed using pH 6 citrate buffer for 20 minutes prior to staining. The tissue section was incubated with rabbit anti-Glucagon antibody overnight at 4Â°C, followed by fluorescent secondary antibody detection and DAPI nuclear counterstain (blue). Glucagon Antibody / Pancreatic Hormone Antibody demonstrates selective staining of pancreatic alpha cells surrounding insulin-positive beta cells and supports studies of GCG expression, endocrine pancreas biology and glucose metabolism pathways.



Glucagon Antibody Rat Pancreas IHC. Immunohistochemistry staining of rat pancreas tissue with Glucagon Antibody. HIER was performed by boiling tissue sections in pH 6 citrate buffer for 20 minutes prior to staining. The tissue section was incubated with glucagon antibody, followed by HRP-conjugated secondary antibody and DAB chromogen detection. Glucagon Antibody / Pancreatic Hormone Antibody demonstrates selective staining of pancreatic endocrine islet cells, consistent with glucagon-producing alpha cell populations, and supports studies of GCG expression, pancreatic hormone regulation and glucose metabolism pathways.



Glucagon Antibody Mouse Pancreas IHC. Immunohistochemistry staining of mouse pancreas tissue with Glucagon Antibody. HIER was performed by boiling tissue sections in pH 6 citrate buffer for 20 minutes prior to staining. The tissue section was incubated with glucagon antibody, followed by HRP-conjugated secondary antibody and DAB chromogen detection. Glucagon Antibody / Pancreatic Hormone Antibody demonstrates selective staining of pancreatic endocrine islet cells, consistent with glucagon-producing alpha cell populations, and supports studies of GCG expression, endocrine pancreas function and glucose metabolism pathways.



Glucagon Antibody Human Pancreatic Cancer IHC. Immunohistochemistry staining of human pancreatic cancer tissue with Glucagon Antibody. HIER was performed by boiling tissue sections in pH 6 citrate buffer for 20 minutes prior to staining. The tissue section was incubated with glucagon antibody, followed by HRP-conjugated secondary antibody and DAB chromogen detection. Glucagon Antibody / Pancreatic Hormone Antibody demonstrates strong staining in pancreatic endocrine cells, consistent with glucagon-producing alpha cell populations, and supports studies of GCG expression, endocrine pancreas biology and glucose metabolism pathways.

Description

Glucagon Antibody / Pancreatic Hormone Antibody detects glucagon, a peptide hormone produced primarily by pancreatic alpha cells that plays a central role in glucose metabolism and endocrine regulation. Glucagon is encoded by the GCG gene and generated through tissue-specific processing of the proglucagon precursor. In pancreatic alpha cells, prohormone processing produces mature glucagon, which functions as a key counter-regulatory hormone to insulin and helps maintain glucose homeostasis through effects on metabolic tissues.

Glucagon is a major component of the endocrine pancreas and is widely studied in metabolic research, diabetes models and investigations of islet cell biology. Following secretion from pancreatic alpha cells, glucagon binds the glucagon receptor to activate signaling pathways involved in hepatic glucose production, glycogen metabolism and energy balance. Glucagon Antibody provides researchers with a tool to examine glucagon-producing cells, pancreatic islet organization and regulation of this important pancreatic hormone.

Research involving glucagon has expanded understanding of the complex interactions between pancreatic hormones that control nutrient availability and metabolic adaptation. Altered glucagon signaling has been investigated in studies of glucose imbalance, endocrine dysfunction and diabetes-related pathways. In addition to pancreatic expression, the GCG

precursor gives rise to related peptides in intestinal and neuronal tissues, highlighting the importance of proglucagon processing in different biological systems.

Detection of glucagon expression is commonly used to identify pancreatic alpha cells and study endocrine cell development, differentiation and function. Analysis of glucagon-producing cells provides insight into islet architecture, hormone regulation and changes that occur during metabolic stress. Glucagon Antibody is valuable for researchers studying pancreatic biology, endocrine signaling and mechanisms controlling glucose homeostasis.

Glucagon Antibody applications include detection of glucagon expression and localization in biological samples using techniques such as immunohistochemistry, immunofluorescence, Western blot and related protein analysis methods. NSJ Bioreagents provides Glucagon Antibody / Pancreatic Hormone Antibody for researchers studying pancreatic hormones, alpha cell biology, glucose metabolism and endocrine regulation pathways.

Glucagon Antibody detects a pancreatic alpha cell hormone involved in glucose metabolism, endocrine signaling and energy balance, making it a useful marker for research areas featured in our Metabolism Antibodies page.

Application Notes

Optimal dilution of the Glucagon Antibody / Pancreatic Hormone Antibody should be determined by the researcher.

Immunogen

Amino acids HSQGTFTSDYSKYLDSRRAQDFVQWLMNT were used as the immunogen for the Glucagon antibody.

Storage

After reconstitution, the Glucagon antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Alternate Names

GCG Antibody, Proglucagon Antibody, Glucagon Peptide Antibody, Pancreatic Alpha Cell Marker Antibody, Enteroglucagon Antibody, Glucagon Hormone Antibody

Copyright © NSJ Bioreagents. All rights reserved.