

Datasheet for 200-301-P38**Glucagon Antibody****Overview**

Description:	Anti-Glucagon (MOUSE) Antibody - 200-301-P38
Item No.:	200-301-P38
Size:	100 µg
Applications:	IHC
Reactivity:	Human, Mouse, Rat, Rabbit
Host Species:	Mouse

Product Details

Background:	Glucagon is a member of a multigene family that includes secretin. Glucagon is a 29-amino acid pancreatic hormone that counteracts the glucose-lowering action of insulin by stimulating glycogenolysis and gluconeogenesis. The human glucagon gene is approximately 9.4 kb long, contains 6 exons, and 5 introns, and assigned to 2q36-2q37. This antibody is suitable for researchers interested in cancer research, metabolic diseases, transcription factors, nuclear receptors, neuroscience research, SKT signaling, GCPR signaling, and calcium signaling research.
Synonyms:	GLP1, GLP2, glicentin-related polypeptide, glucagon-like peptide 1, glucagon-like peptide 2
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	K79bB10
Format:	IgG1

Target Details

Gene Name:	GCG
Reactivity:	Human, Mouse, Rat, Rabbit
Immunogen Type:	Other
Immunogen:	Glucagon antibody was produced in mice by repeated immunizations with polymerized porcine glucagon.

Purity/Specificity:	Anti-Glucagon antibody was purified from mouse ascites by protein A chromatography. This product reacts with human, mouse, rat, and rabbit. Cross reactivity with Glucagon from other sources has not been determined.
Relevant Links:	• UniProtKB - P01274 • GeneID - 397595 • NCBI - NP_999489.1

Application Details

Tested Applications:	IHC
Application Note:	Anti-Glucagon is tested for Immunohistochemistry -P. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately ~20.9 kDa corresponding to the appropriate cell lysate or extract.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
IHC:	1:100-1:500

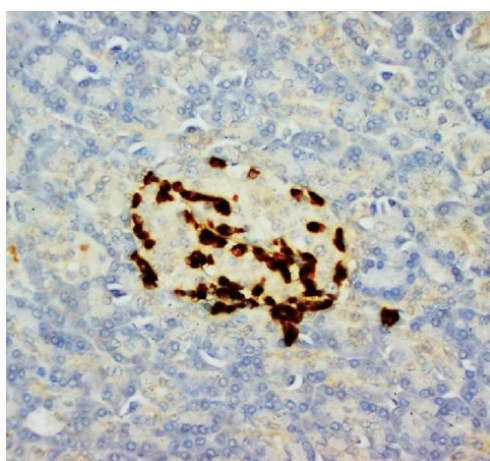
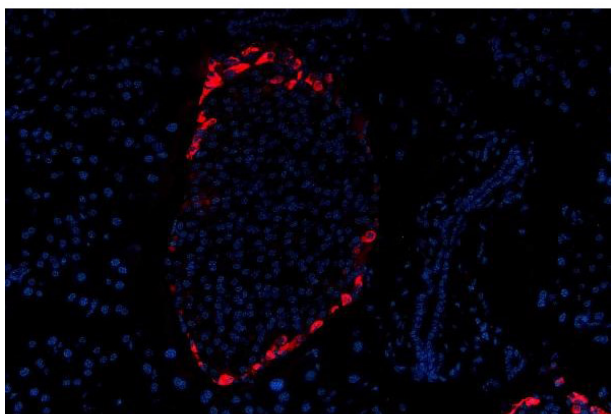
Formulation

Physical State:	Lyophilized
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	1.2% sodium acetate
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	2mg BSA
Reconstitution Volume:	1.0 mL
Reconstitution Buffer:	Neutral PBS

Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	Store vial at 4° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Immunofluorescence Microscopy

Immunofluorescence analysis of Glucagon using anti-Glucagon antibody.

Glucagon was detected in a paraffin-embedded section of mouse pancreas tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 5 µg/mL mouse anti-Glucagon Antibody overnight at 4°C.

DyLight®594 Conjugated Goat Anti-Mouse IgG was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

Immunohistochemistry

Immunohistochemistry analysis of Glucagon using anti-Glucagon antibody.

Glucagon was detected in a paraffin-embedded section of Rat Pancreas tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1 µg/ml mouse anti-Glucagon Antibody overnight at 4°C. Peroxidase Conjugated Goat Anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Mouse IgG Super Vision Assay Kit as the chromogen.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.