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Glucagon Rabbit mAb

Catalog No.: A22702 Recombinant 1 Publications

Basic Information

Observed MW
21 kDa

Calculated MW
21 kDa

Category
Primary antibody

Applications
WB,IF-P,IHC-P,mIHC,ELISA

Cross-Reactivity
Human, Mouse, Rat

CloneNo number
ARC56934

Background

The protein encoded by this gene is actually a preproprotein that is cleaved into four distinct mature peptides. One of these, glucagon, is a pancreatic hormone that counteracts the glucose-lowering action of insulin by stimulating glycogenolysis and gluconeogenesis. Glucagon is a ligand for a specific G-protein linked receptor whose signalling pathway controls cell proliferation. Two of the other peptides are secreted from gut endocrine cells and promote nutrient absorption through distinct mechanisms. Finally, the fourth peptide is similar to glicentin, an active enteroglucagon.

Recommended Dilutions

WB	1:2000 - 1:6000
IF-P	1:1000 - 1:5000
IHC-P	1:10000 - 1:40000
mIHC	1:10000 - 1:40000
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
2641

Swiss Prot
P01275

Immunogen
Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms
GLP1; GLP2; GRPP; GLP-1; Glucagon

Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

Contact

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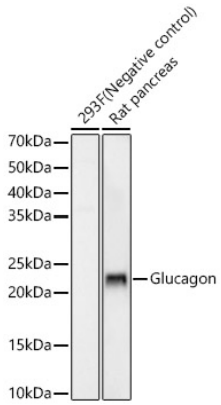
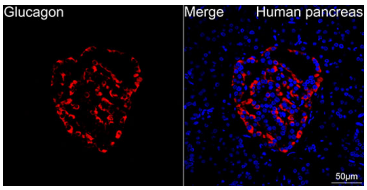
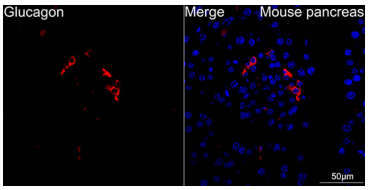
Validation Data



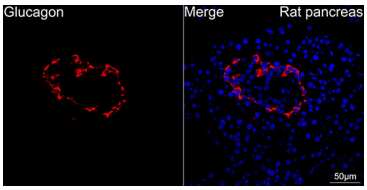
Western blot analysis of various lysates using Glucagon Rabbit mAb (A22702) at 1:5000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Enhanced Kit (RM00021).
Exposure time: 180s.



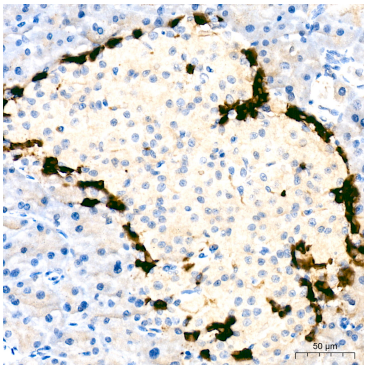
Confocal imaging of paraffin-embedded Human pancreas tissue using Glucagon Rabbit mAb (A22702,dilution 1:1500) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



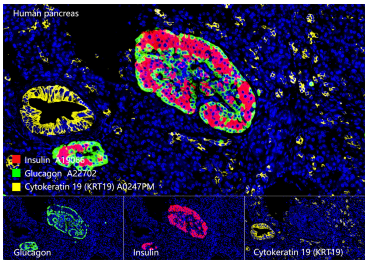
Confocal imaging of paraffin-embedded Mouse pancreas tissue using Glucagon Rabbit mAb (A22702,dilution 1:1500) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



Confocal imaging of paraffin-embedded Rat pancreas tissue using Glucagon Rabbit mAb (A22702,dilution 1:1500) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



Immunohistochemistry analysis of paraffin-embedded Human pancreas tissue using Glucagon Rabbit mAb (A22702) at a dilution of 1:35000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



The multiplex IHC analysis on paraffin-embedded Human pancreas tissue using the following specific primary antibodies and tyramide signal amplification (TSA) reagents (RK05903) : Glucagon Rabbit mAb (A22702, 1:30000) with TSA-TYR-520 (Green), and Insulin Rabbit mAb (A19066, 1:40000) with TSA-TYR-570 (Red), and Cytokeratin 19 (KRT19) Rabbit PolymAb® (A0247PM, 1:10000) with TSA-TYR-690 (Yellow). DAPI (Blue) was used for nuclear staining. Prior to

Validation Data

multiplex IHC staining, high-pressure antigen retrieval was performed using 0.01M citrate buffer at pH 6.0. The analysis was completed using a 40x objective lens.