Datasheet for ABIN3042419

anti-Glucagon antibody (N-Term)

3 Images | 6 Publications

Go to Product page

Overview

Quantity:	100 µg
Target:	Glucagon (GCG)
Binding Specificity:	AA 53-81, N-Term
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Glucagon antibody is un-conjugated
Application:	Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Glucagon(GCG) detection. Tested with IHC-P in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the N-terminus of human GLP1 (53-81aa HSQGTFTSDYSKYLDSRRAQDFVQWLMNT), identical to the related mouse and rat sequences.
Sequence:	HSQGTFTSDY SKYLDSRRAQ DFVQWLMNT
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Glucagon(GCG) detection. Tested with IHC-P in Human,Mouse,Rat. Gene Name: glucagon Protein Name: Glucagon

Product Details

Purification:	Immunogen affinity purified.

Target Details

Target:	Glucagon (GCG)
Alternative Name:	GCG (GCG Products)
Background:	GCG is also known as GLP1, or Glucagon. Glucagon is a 29-amino acid pancreatic hormone that counteracts the glucose-lowering action of insulin by stimulating glycogenolysis and gluconeogenesis. It is mapped to 2q36-2q37. GLP1, also known as 7-37 for the codons of the preproglucagon molecule which encode it, renders pancreatic beta-cells 'glucose-competent' and may be useful in the treatment of noninsulin-dependent diabetes mellitus. Also, GLP1 is a potent insulin secretagogue. It plays a major role in the enteroinsular axis, accounting, for example, for the finding that plasma insulin levels accompanying oral intake of glucose are greater than those observed when glucose is given intravenously. Synonyms: GCG antibody|glicentin-related polypeptide antibody|GLP-1 antibody|GLP-1(7-36) antibody|GLP-1(7-37) antibody|GLP-2 antibody|GLP1 antibody|GLP1, included antibody|GLP2 antibody|GLP2, included antibody|GLUC_HUMAN antibody|Glucagon antibody|Glucagon like peptide 1 antibody|glucagon-like peptide 1 antibody|Glucagon-like peptide 1, included antibody|Glucagon-like peptide 2 antibody|Glucagon-like peptide 2, included antibody|GRPP antibody|OXM antibody|OXY antibody|preproglucagon antibody
Gene ID:	2641
UniProt:	P01275
Pathways:	Positive Regulation of Peptide Hormone Secretion, Peptide Hormone Metabolism, cAMP Metabolic Process, Regulation of Carbohydrate Metabolic Process, Feeding Behaviour, Negative Regulation of intrinsic apoptotic Signaling

Application Details

Application Notes:	IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Mouse, Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections. Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by ABIN921231 in IHC(P).

Application Details

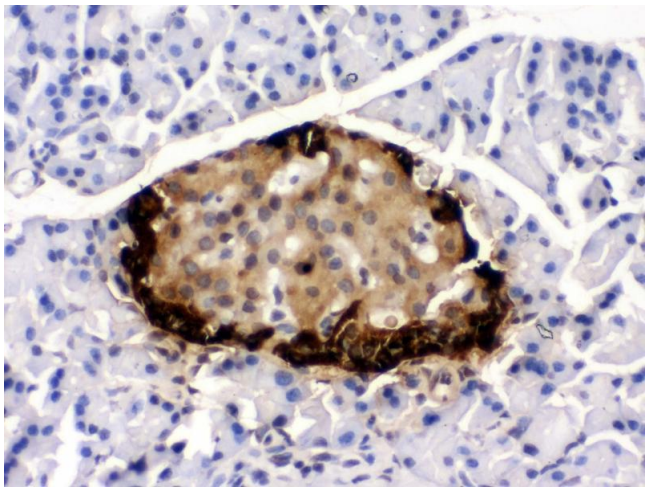
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

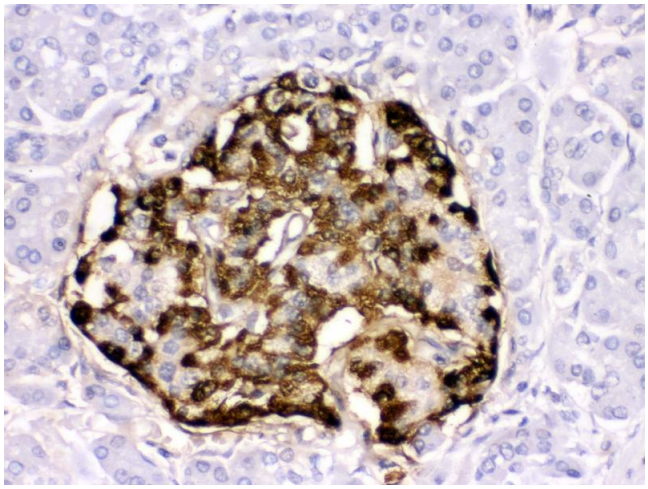
Publications

Product cited in:	Tang, Piao, Zhao, Mu, Li, Ma, Song, Wang, Zhao, Zhang: "Expression and correlation of matrix metalloproteinase-9 and heparanase in patients with breast cancer." in: **Medical oncology (Northwood, London, England)**, Vol. 31, Issue 7, pp. 26, (2014) (PubMed). Huining, Yi, Dihong, Yifeng, Man, Ting, Jingting: "Inhibition of choriocarcinoma by Fe3O4-dextran-anti-β-human chorionic gonadotropin nanoparticles containing antisense oligodeoxynucleotide of heparanase." in: **International journal of nanomedicine**, Vol. 8, pp. 4371-8, (2014) (PubMed). Tang, Zhang, Zhao, Wang, Lu, Song, Zhao, Kang, Wang, Xu, Tian: "The expression and clinical significance of microRNA-1258 and heparanase in human breast cancer." in: **Clinical biochemistry**, Vol. 46, Issue 10-11, pp. 926-32, (2013) (PubMed). There are more publications referencing this product on: Product page



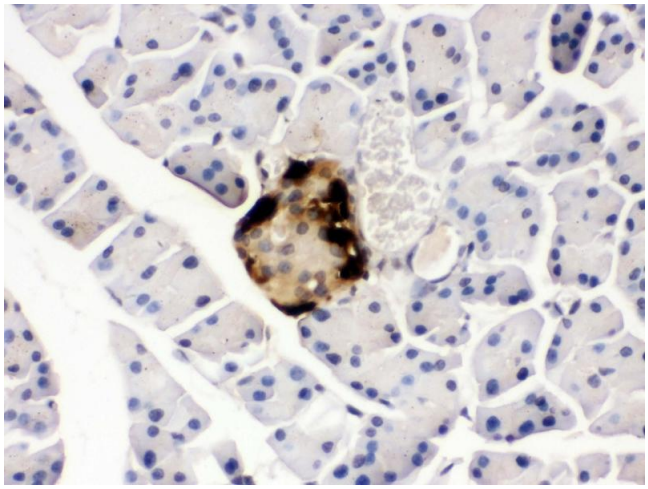
Immunohistochemistry

Image 1. Anti- GLP1 Picoband antibody, IHC(P) IHC(P): Rat Pancreas Tissue



Immunohistochemistry

Image 2. Anti- GLP1 Picoband antibody, IHC(P) IHC(P): Human Pancreatic Cancer Tissue



Immunohistochemistry

Image 3. Anti- GLP1 Picoband antibody, IHC(P) IHC(P): Mouse Pancreas Tissue

