

**Glucagon (ABT-GCG) mouse mAb**

<b>Catalog No :</b>	YM6182
<b>Reactivity :</b>	Human;Mouse;Rat;
<b>Applications :</b>	IHC;IF;ELISA
<b>Target :</b>	Glucagon
<b>Fields :</b>	>>cAMP signaling pathway;>>Neuroactive ligand-receptor interaction;>>Thermogenesis;>>Insulin secretion;>>Glucagon signaling pathway
<b>Gene Name :</b>	GCG
<b>Protein Name :</b>	Glucagon [Cleaved into: Glicentin; Glicentin-related polypeptide (GRPP); Oxyntomodulin (OXM) (OXY); Glucagon; Glucagon-like peptide 1 (GLP-1) (Incretin hormone); Glucagon-like peptide 1(7-37) (GLP-1(7
<b>Human Gene Id :</b>	2641
<b>Human Swiss Prot No :</b>	P01275
<b>Immunogen :</b>	Synthesized peptide derived from human Glucagon AA range: 2-100
<b>Specificity :</b>	This antibody detects endogenous levels of Glucagon protein.
<b>Formulation :</b>	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
<b>Source :</b>	Mouse, Monoclonal/IgG1, kappa
<b>Dilution :</b>	IHC 1:200-400. IF 1:50-200. ELISA 1:500-5000
<b>Purification :</b>	The antibody was affinity-purified from ascites by affinity-chromatography using specific immunogen.
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Molecularweight :</b>	20kD

**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. [provided by RefSeq, Jul 2008],

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**Function :**

function:Glicentin may modulate gastric acid secretion and the gastro-pyloro-duodenal activity. May play an important role in intestinal mucosal growth in the early period of life.,function:GLP-1 is a potent stimulator of glucose-dependent insulin release. Play important roles on gastric motility and the suppression of plasma glucagon levels. May be involved in the suppression of satiety and stimulation of glucose disposal in peripheral tissues, independent of the actions of insulin. Have growth-promoting activities on intestinal epithelium. May also regulate the hypothalamic pituitary axis (HPA) via effects on LH, TSH, CRH, oxytocin, and vasopressin secretion. Increases islet mass through stimulation of islet neogenesis and pancreatic beta cell proliferaton. Inhibits beta cell apoptosis.,function:GLP-2 stimulates intestinal growth and up-regulates villus height in the small intestine, c

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**Subcellular Location :**

Cytoplasmic

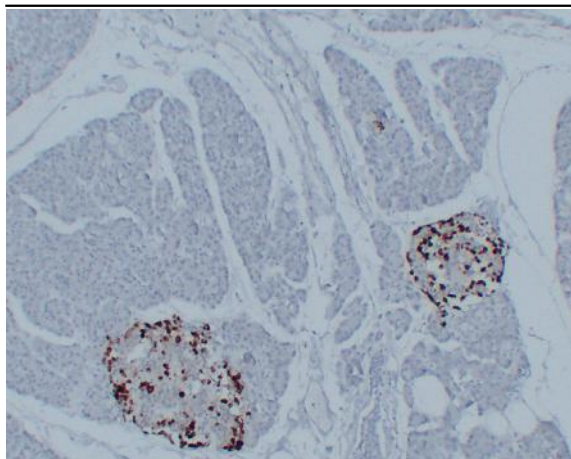
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**Expression :**

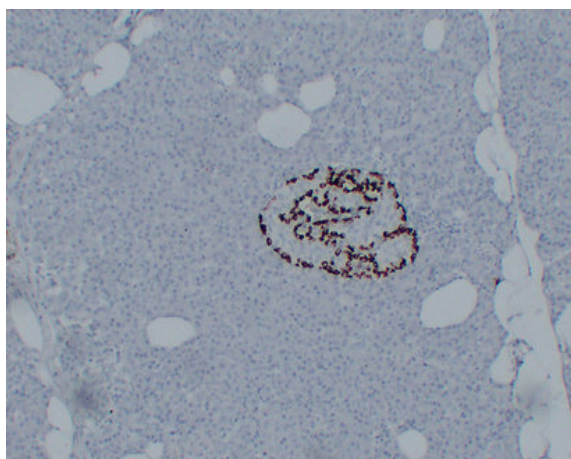
[Glucagon]: Secreted in the A cells of the islets of Langerhans. ; [Glucagon-like peptide 1]: Secreted in the A cells of the islets of Langerhans (PubMed:22037645). Secreted from enteroendocrine L cells throughout the gastrointestinal tract (PubMed:22037645). Also secreted in selected neurons in the brain. ; [Glucagon-like peptide 2]: Secreted from enteroendocrine cells throughout the gastrointestinal tract. Also secreted in selected neurons in the brain.; [Glicentin]: Secreted from enteroendocrine cells throughout the gastrointestinal tract.; [Oxyntomodulin]: Secreted from enteroendocrine cells throughout the gastrointestinal tract.

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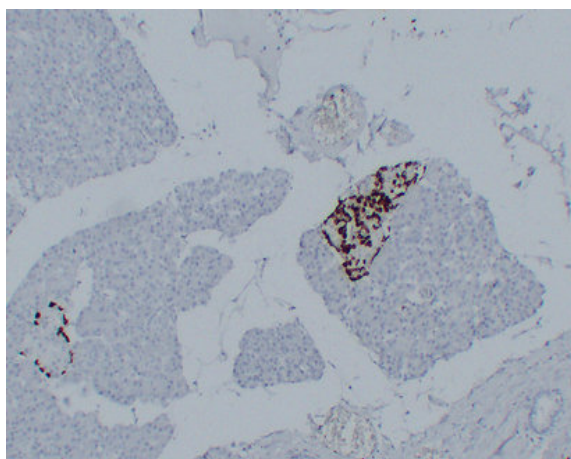
## Products Images



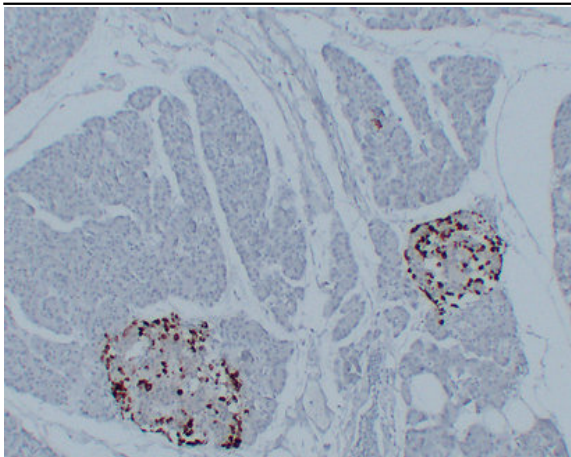
Human pancreas tissue was stained with Anti-Glucagon (ABT-GCG) Antibody



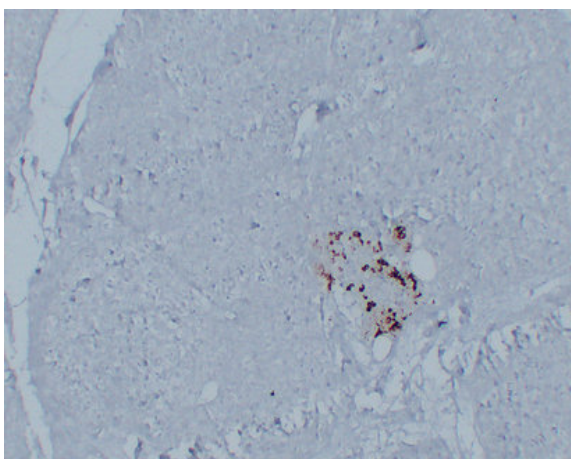
Immunohistochemical analysis of paraffin-embedded Pancreas. 1, Antibody was diluted at 1:200(4° overnight). 2, Citric acid ,pH6.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 30min).



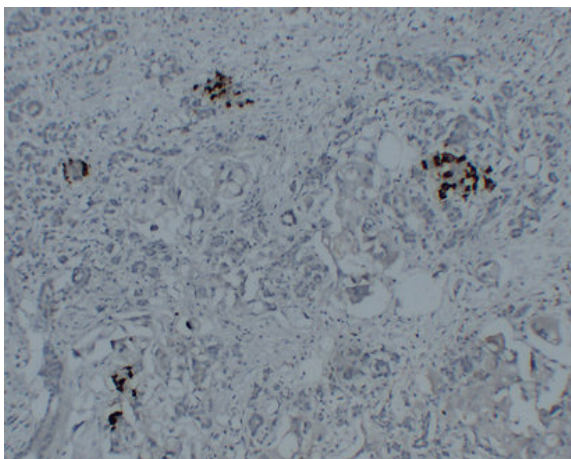
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Immunohistochemical analysis of paraffin-embedded Pancreatic carcinoma. 1, Antibody was diluted at 1:200(4° overnight). 2, Citric acid ,pH6.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 30min).