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PRODUCT DATASHEET

Anti-Glucagon Antibody

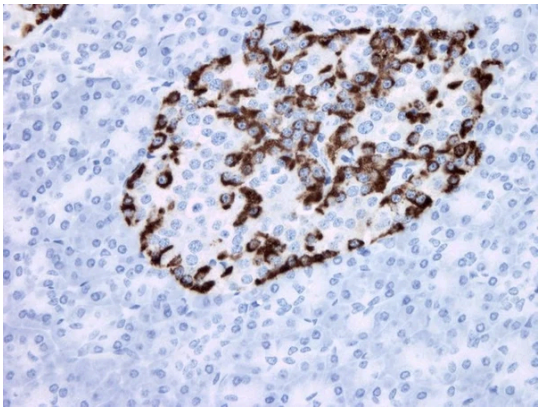
Product Details

Available Variants	100 uL (SKU:ABS 061-09-010) 400 uL (SKU:ABS 061-09-04) 1000 uL (SKU:ABS 061-09-1)
Conjugate	Unconjugated
Isotype	IgG1/k
Clone	9
Gene Name	GCG
Host Species	Mouse
Concentration	1 mg/mL ±15%
Format	Protein A or Protein G purified
Physical State	Liquid
Buffer	0.01 M phosphate buffer, pH 7.4, with 0.5 M NaCl and 15 mM sodium azide
Production Notes	BSA free
Applications	ELISA, IF, IHC
Dilution Ranges	IHC: 1:8000
Species Reactivity	Human
Immunogen	Synthetic C-terminal fragment of glucagon coupled to carrier
Specificity	ABS 061-09 binds human glucagon. Cross-reacts less than 5% with oxyntomodulin. The epitope lies within the C-terminal region of glucagon.
Molecular Weight	20.4 kDa
Storage	2-8°C without exposure to light
UniProt ID	P01275 UniProt Summary: [Glucagon]: Plays a key role in glucose metabolism and homeostasis. Regulates blood glucose by increasing gluconeogenesis and

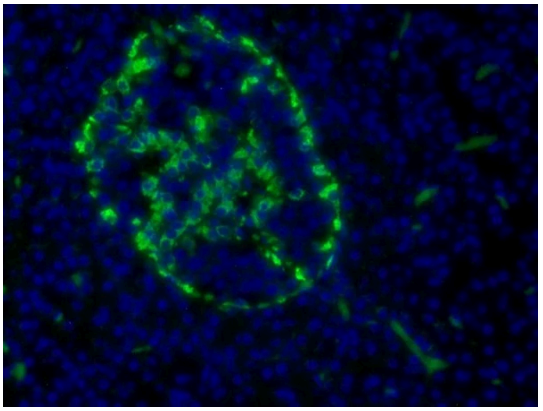
	decreasing glycolysis. A counterregulatory hormone of insulin, raises plasma glucose levels in response to insulin-induced hypoglycemia. Plays an important role in initiating and maintaining hyperglycemic conditions in diabetes. Binds to and activates the glucagon receptor GCGR, which couples to the G(s) G protein and elevates intracellular cAMP, triggering downstream metabolic responses (PubMed:32193322). {ECO:0000269|PubMed:32193322, ECO:0000303|PubMed:10605628, ECO:0000303|PubMed:12626323}.; [Glucagon-like peptide 1]: Potent stimulator of glucose-dependent insulin release (PubMed:22037645, PubMed:40446798). Also stimulates insulin release in response to IL6 (PubMed:22037645). Plays important roles on gastric motility and the suppression of plasma glucagon levels (PubMed:10605628, PubMed:14719035, PubMed:12554744). May be involved in the suppression of satiety and stimulation of glucose disposal in peripheral tissues, independent of the actions of insulin (PubMed:10605628, PubMed:14719035, PubMed:12554744). Has growth-promoting activities on intestinal epithelium (PubMed:10605628, PubMed:14719035, PubMed:12554744). May also regulate the hypothalamic pituitary axis (HPA) via effects on LH, TSH, CRH, oxytocin, and vasopressin secretion (PubMed:10605628, PubMed:14719035, PubMed:12554744). Increases islet mass through stimulation of islet neogenesis and pancreatic beta cell proliferation (PubMed:10605628, PubMed:14719035, PubMed:12554744). Inhibits beta cell apoptosis (PubMed:10605628, PubMed:14719035, PubMed:12554744). {ECO:0000269|PubMed:22037645, ECO:0000269|PubMed:40446798, ECO:0000303|PubMed:10605628, ECO:0000303|PubMed:12554744, ECO:0000303|PubMed:14719035}.; [Glucagon-like peptide 2]: Stimulates intestinal growth and up-regulates villus height in the small intestine, concomitant with increased crypt cell proliferation and decreased enterocyte apoptosis. The gastrointestinal tract, from the stomach to the colon is the principal target for GLP-2 action. Plays a key role in nutrient homeostasis, enhancing nutrient assimilation through enhanced gastrointestinal function, as well as increasing nutrient disposal. Stimulates intestinal glucose transport and decreases mucosal permeability. {ECO:0000303|PubMed:10322410, ECO:0000303|PubMed:10605628, ECO:0000303|PubMed:12554744, ECO:0000303|PubMed:14719035}.; [Oxyntomodulin]: Significantly reduces food intake. Inhibits gastric emptying in humans. Suppression of gastric emptying may lead to increased gastric distension, which may contribute to satiety by causing a sensation of fullness. {ECO:0000303|PubMed:10605628, ECO:0000303|PubMed:12554744}.; [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. {ECO:0000303|PubMed:10605628, ECO:0000303|PubMed:12554744}.
Country of Origin	United States
Shipping	Shipped on ice packs
Expiration	24 months from date of receipt

Usage Statement	These antibodies are to be used as research laboratory reagents and are not for use as diagnostic or therapeutic reagents in humans.
NCBI Gene ID	2641

Product Images



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