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PRODUCT DATASHEET

Anti-GLP-1 (7-37) and GLP-1 (7-36) amide (N-term) Antibody

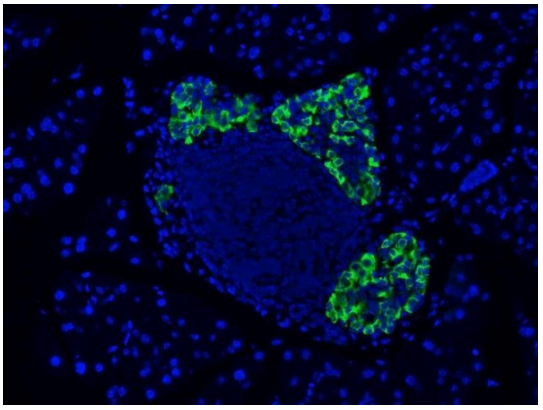
Product Details

Available Variants	100 uL (SKU:ABS 033-04-010) 400 uL (SKU:ABS 033-04-04) 1000 uL (SKU:ABS 033-04-1)
Conjugate	Unconjugated
Isotype	IgG1/k
Clone	4
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, IHC
Species Reactivity	Human
Immunogen	Synthetic GLP-1(7-17)
Specificity	ABS 033-04 binds the free N-terminus of GLP-1(7-37) and GLP-1(7-36)amide and shows <0.2% cross-reactivity with GLP-1(1-37), GLP-1(9-36)amide, glucagon, human GIP and exendin-4. Cross-reacts approximately 1% with human GLP-2.
Molecular Weight	20 kDa (proglucagon)
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



Immunohistochemistry detection of GLP-1(7-37) and GLP-1(7-36) amide (N-term) in Mouse endocrine tissue using Anti-GLP-1 (7-37) and GLP-1 (7-36) amide (N-term) Antibody (Cat.ABS 033-04-010). Tissue was mounted and pariffin fixed. Heat induced antigen retrieval was performed using citrate buffer, heated, and then blocked. After washing, the primary antibody (Cat.ABS 033-04-010) was incubated with the sample at a dilution of 1:500. Courtesy of Dr. Annette Plesner, University of British Columbia.