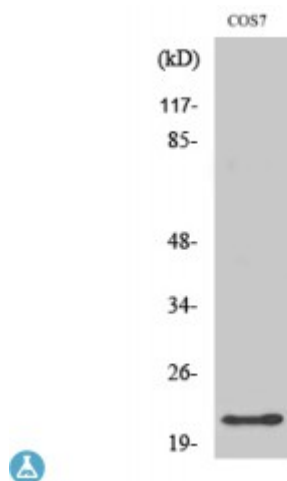


Anti-GCG antibody



| | |
|---------------------------|---|
| Description | Rabbit polyclonal to GCG. |
| Model | STJ93236 |
| Host | Rabbit |
| Reactivity | Human, Mouse, Rat, Simian |
| Applications | ELISA, IF, IHC, WB |
| Immunogen | Synthesized peptide derived from human GCG |
| Immunogen Region | 30-110 aa, Internal |
| Gene ID | 2641 |
| Gene Symbol | GCG |
| Dilution range | WB 1:500-1:2000IHC 1:100-1:300IF 1:200-1:1000ELISA 1:40000 |
| Specificity | GCG Polyclonal Antibody detects endogenous levels of GCG protein. |
| Tissue Specificity | Glucagon is secreted in the A cells of the islets of Langerhans. GLP-1, GLP-2, oxyntomodulin and glicentin are secreted from enteroendocrine cells throughout the gastrointestinal tract. GLP-1 and GLP-2 are also secreted in selected neurons in the brain. |
| Purification | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| Note | For Research Use Only (RUO). |
| Protein Name | Glucagon Glicentin Glicentin-related polypeptide GRPP Oxyntomodulin OXM OXY Glucagon Glucagon-like peptide 1 GLP-1 Incretin hormone Glucagon-like peptide 1 01/07/37 GLP-1 |

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| Molecular Weight | 25 kDa |
| Clonality | Polyclonal |
| Conjugation | Unconjugated |
| Isotype | IgG |
| Formulation | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| Concentration | 1 mg/ml |
| Storage Instruction | Store at -20°C, and avoid repeat freeze-thaw cycles. |
| Database Links | HGNC:4191OMIM:138030 |
| Alternative Names | Glucagon Glicentin Glicentin-related polypeptide GRPP Oxyntomodulin OXM OXY Glucagon Glucagon-like peptide 1 GLP-1 Incretin hormone Glucagon-like peptide 1 01/07/37 GLP-1 |
| Function | <p>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.; 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 proliferation. Inhibits beta cell apoptosis.; GLP-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.; 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.; 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.</p> |
| Cellular Localization | Secreted. |
| Post-translational Modifications | <p>Proglucagon is post-translationally processed in a tissue-specific manner in pancreatic A cells and intestinal L cells. In pancreatic A cells, the major bioactive hormone is glucagon cleaved by PCSK2/PC2. In the intestinal L cells PCSK1/PC1 liberates GLP-1, GLP-2, glicentin and oxyntomodulin. GLP-1 is further N-terminally truncated by post-translational processing in the intestinal L cells resulting in GLP-1(7-37) GLP-1-(7-36)amide. The C-terminal amidation is neither important for the metabolism of GLP-1 nor for its effects on the endocrine pancreas.</p> |

