

## Rabbit GCG Polyclonal Antibody | anti-GCG antibody

GCG Antibody

| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                                                                       |
|-----------|--------|-------------------|------------------------------------------------------------------------------------|
| AAA326035 | Rabbit | Human, Mouse, Rat | ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot |

### PRODUCT SYNONYMS

GCG; Polyclonal Antibody; GCG Antibody; GLP-1; GLP-1(7-36); GLP-1(7-37); GLP-2; GLUC\_HUMAN; Glucagon-like peptide 2; GRPP; Incretin hormone; OXM; OXY; anti-GCG antibody

### PRODUCT SPECIFICATIONS

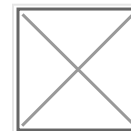
|                                               |                                                                                                                                                                                                                                                               |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                          | Rabbit                                                                                                                                                                                                                                                        |
| Reactivity                                    | Human, Mouse, Rat                                                                                                                                                                                                                                             |
| Clonality                                     | Polyclonal                                                                                                                                                                                                                                                    |
| Isotype                                       | IgG                                                                                                                                                                                                                                                           |
| Specificity                                   | GCG antibody detects endogenous levels of total GCG                                                                                                                                                                                                           |
| Purity/Purification                           | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.                                                                                                                                                                 |
| Form/Format                                   | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                                                                                                                                                                 |
| Concentration                                 | 1mg/ml (varies by lot)                                                                                                                                                                                                                                        |
| Sequence Length                               | 180                                                                                                                                                                                                                                                           |
| Applicable Applications for anti-GCG antibody | ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)                                                                                                                                                      |
| Immunogen                                     | A synthesized peptide derived from human GCG                                                                                                                                                                                                                  |
| Subcellular Location                          | Secreted.                                                                                                                                                                                                                                                     |
| 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. |
| Conjugation                                   | Unconjugated                                                                                                                                                                                                                                                  |
| Preparation and Storage                       | Store at -20 degree C. Stable for 12 months from date of receipt.                                                                                                                                                                                             |

### IMAGES



#### IF (Immunofluorescence)

AAA326035 staining HeLa cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



#### WB (Western Blot)

Western blot analysis of HepG2 lysate using GCG antibody. The lane on the left is treated with the antigen-specific peptide.



#### IHC (Immunohistochemistry)

AAA326035 at 1/100 staining Mouse brain tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

### ADDITIONAL INFORMATION

|                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-GCG antibody</b> | <p>Description: Glucose homeostasis is regulated by a variety of hormones including glucagon. Glucagon is synthesized as the precursor molecule proglucagon and is proteolytically processed to yield the mature peptide in alpha cells of the pancreatic islets. Glucagon causes the release of glucose from glycogen and stimulates gluconeogenesis in the liver (1, 2).</p> <p>Function: 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.</p> <p>Post-translational Modifications: 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> <p>Similarity: Belongs to the glucagon family.</p> |
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### NCBI AND UNIPROT INFORMATION

|                                  |                                                        |
|----------------------------------|--------------------------------------------------------|
| NCBI GI #                        | 4503945                                                |
| NCBI GeneID                      | 2641                                                   |
| NCBI Accession #                 | NP_002045.1                                            |
| NCBI GenBank Nucleotide #        | NM_002054.4                                            |
| UniProt Accession #              | P01275; Q53TP6; A6NN65                                 |
| Molecular Weight                 | Observed: 21 kDa<br>Predicted: 21 kDa                  |
| NCBI Official Full Name          | glucagon preproprotein                                 |
| NCBI Official Synonym Full Names | glucagon                                               |
| NCBI Official Symbol             | GCG                                                    |
| NCBI Official Synonym Symbols    | GLP1; GLP2; GRPP; GLP-1                                |
| NCBI Protein Information         | glucagon                                               |
| UniProt Protein Name             | Glucagon                                               |
| UniProt Gene Name                | GCG                                                    |
| UniProt Synonym Gene Names       | GRPP; OXM; OXY; GLP-1; GLP-1(7-37); GLP-1(7-36); GLP-2 |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.