

**Glucagon Antibody (ascites)**  
**Mouse Monoclonal Antibody (Mab)**  
**Catalog # AM1940a**

**Specification**

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**Glucagon Antibody (ascites) - Product Information**

Application	WB,E
Primary Accession	<a href="#">P01275</a>
Other Accession	<a href="#">NP_002045.1</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Antigen Region	119-148

**Glucagon Antibody (ascites) - Additional Information**

**Gene ID** 2641

**Other Names**

Glucagon, 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(7-37), Glucagon-like peptide 1(7-36), GLP-1(7-36), Glucagon-like peptide 2, GLP-2, GCG

**Target/Specificity**

This Glucagon antibody is generated from mice immunized with a KLH conjugated synthetic peptide between 119-148 amino acids from human Glucagon.

**Dilution**

WB~~1:500~8000

**Format**

Mouse monoclonal antibody supplied in crude ascites with 0.09% (W/V) sodium azide.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Glucagon Antibody (ascites) is for research use only and not for use in diagnostic or therapeutic procedures.

**Glucagon Antibody (ascites) - Protein Information**

**Name** GCG ([HGNC:4191](#))

**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.

#### Cellular Location

Secreted.

#### Tissue Location

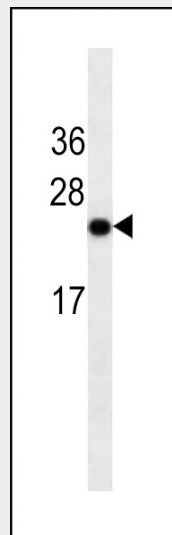
[Glucagon]: Secreted in the A cells of the islets of Langerhans. [Glucagon-like peptide 2]: Secreted from enteroendocrine cells throughout the gastrointestinal tract. Also secreted in selected neurons in the brain [Oxyntomodulin]: Secreted from enteroendocrine cells throughout the gastrointestinal tract

### Glucagon Antibody (ascites) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Glucagon Antibody (ascites) - Images



Glucagon Antibody (Cat. #AM1940a) western blot analysis in HepG2 cell line lysates (35µg/lane). This demonstrates the Glucagon antibody detected the Glucagon protein (arrow).

### Glucagon Antibody (ascites) - 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.

#### **Glucagon Antibody (ascites) - References**

Jablonski, K.A., et al. Diabetes 59(10):2672-2681(2010)  
Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)  
Hare, K.J. Dan Med Bull 57 (9), B4181 (2010) :  
Yamaoka-Tojo, M., et al. Cardiovasc Diabetol 9, 17 (2010) :  
Bertenshaw, G.P., et al. J. Biol. Chem. 276(16):13248-13255(2001)