

ABfinity™ Glucagon Recombinant Rabbit Oligoclonal Antibody

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Catalog Number: 710316

Store at 2°C to 8°C (short-term), or -20°C (long-term)

Clonality: Oligoclonal
Concentration: 0.5 mg/mL
Quantity: 100 µg
Volume: 200 µL

Host/Class: Rabbit IgG
Reactivity: Human Glucagon
Predicted Reactivity: Human

Product Description

Glucagon is a peptide hormone secreted by alpha cells in the Islet of Langerhans of the pancreas. The peptide is synthesized as a 180 amino acid precursor which is converted to glucagon by prohormone convertase 2 (PC2). The primary role of glucagon is in gluconeogenesis and glycogenolysis. It stimulates the release of glucose by converting glycogen in liver, and also maintains glucose homeostasis in coordination with insulin.

Product Specifications

Immunogen: Peptide corresponding to amino acids 53–81 of human Glucagon
Alternate Names: GRPP, GLP1, GLP2
Apparent MW: ~21 kDa for pro form (mature form 3.2 kDa)
Gene ID: 2641
Protein Accession No.: P01275
Sequence Identity: Human
Sequence Homology: Mouse, Rat, Monkey, Rabbit, Swine
Clone/PAD: 3HCLC
Lot: See product label

Product Applications

Application	Species	Test Material	Concentration
Western blotting	Monkey	Cos-7 cells	2–3 µg/mL
Indirect ELISA	Human	Peptide	1.5 × 10 ⁻⁴ to 3 µg/mL

Storage and Handling

Store the antibody at 2°C to 8°C for up to 1 month, -20°C for long-term storage. Avoid repeated freezing and thawing.

Stability

When stored as instructed, expires one year from date of receipt unless otherwise indicated on product label.

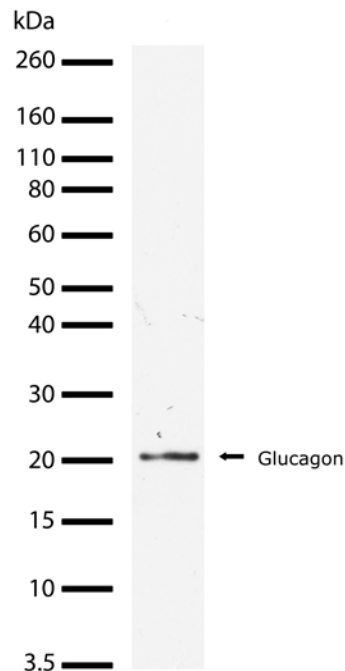


Figure 1 Western blot analysis of ABfinity™ Glucagon Recombinant Rabbit Oligoclonal Antibody (Cat. no. 710316).

Western blot analysis was performed on Cos-7 whole cell extracts. Endogenous levels of Glucagon (pro form) was detected at ~21 kDa using ABfinity™ Glucagon Recombinant Rabbit Oligoclonal Antibody at a concentration of 2 µg/mL. The blot was developed using enhanced chemiluminescence (ECL) method.

Storage Buffer

Phosphate buffered saline (PBS) with 0.09% sodium azide.

Caution: Sodium azide is extremely toxic and may react with lead and copper plumbing to form highly explosive metal azides. Properly dispose of solutions containing sodium azide. Read the Safety Data Sheets (SDSs) and follow the handling instructions. Wear appropriate protective eyewear, clothing and gloves. SDSs are available at www.lifetechnologies.com/support.

For research use only. Not for human or animal therapeutic or diagnostic use.

Manufacturing Site • 7335 Executive Way • Frederick • MD 21704 • E-mail: techsupport@lifetech.com

Product Documentation

To obtain a Certificate of Analysis or SDSs, visit www.lifetechnologies.com/support.

Related Products

Product Name	Quantity	Catalog No.
iBlot [®] Dry Blotting System	1 unit	IB1001
WesternBreeze [®] Chromogenic Kit Anti-Rabbit	1 kit	WB7105
WesternBreeze [®] Chemiluminescent Kit, Anti-Rabbit	1 kit	WB7106
Goat anti-mouse (H+L), HRP conj.	1 mg	G21040
Goat anti-rabbit (H+L), HRP conj.	1 mg	G21234
Goat anti-mouse (H+L), AP conj.	1 mg	G21060
Goat anti-rabbit (H+L), AP conj.	1 mg	G21079
Nitrocellulose, 0.2 µm	20/pack	LC2000

Explanation of symbols

Symbol	Description	Symbol	Description
	Catalogue Number		Batch code
	Research Use Only		In vitro diagnostic medical device
	Use by		Temperature limitation
	Manufacturer		European Community authorised representative
	Without, does not contain		With, contains
	Protect from light		Consult accompanying documents
	Directs the user to consult instructions for use (IFU), accompanying the product.		

Limited Product Warranty

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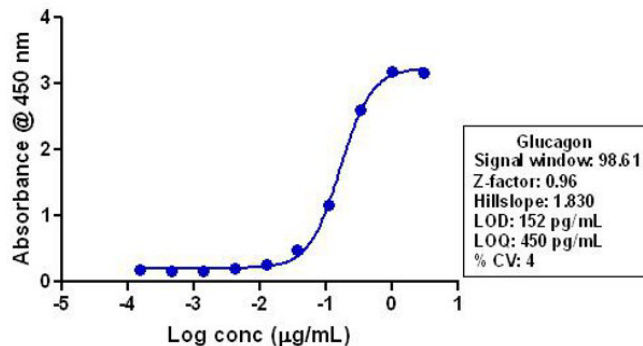


Figure 2 Indirect ELISA of ABfinity[™] Glucagon Recombinant Rabbit Oligoclonal Antibody (Cat. no. 710316).

Indirect ELISA was performed using various dilutions of ABfinity[™] Glucagon Recombinant Rabbit Oligoclonal Antibody to detect Glucagon peptide coated onto the plate. A non-linear regression analysis was performed (4 PL), and LOD and LOQ for the antibody was determined.

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