

ABfinity™ Insulin Recombinant Rabbit Oligoclonal Antibody

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

Catalog Number 710289

Pub. No. MAN0007542 Rev. 1.00

Clonality: Oligoclonal	Quantity: 100 µg	Volume: 200 µL	Concentration: 0.5 mg/mL
Host/Class: Rabbit IgG	Reactivity: Human Insulin	Predicted Reactivity: Human	

Product Description

Insulin is a hormone secreted by islet cells of the pancreas. It functions to regulate of blood glucose homeostasis, and modulate lipid metabolism. Insulin is a cleavage product produced from proinsulin produced by beta cells. Proinsulin is cleaved into three peptides. The A and B-chains are covalently linked by disulphide bonds, and make up the insulin molecule.

Product Specifications

Immunogen:	Folded protein domain corresponding to amino acids of Human Insulin
Apparent MW:	~ 11 kDa
Gene ID:	3630
Protein Accession No.:	P01308
Sequence Identity:	Human
Isotype:	IgG ₁
Lot:	See product label

Product Applications

Application	Species	Test Material	Concentration
Immunofluorescence	Human	Human pancreas	5 µg/mL
Immunocytochemistry	Human	Human pancreas	5 µg/mL
Indirect ELISA	Human	Recombinant protein	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, or –20°C for long storage. Avoid repeated freezing and thawing.

Stability

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

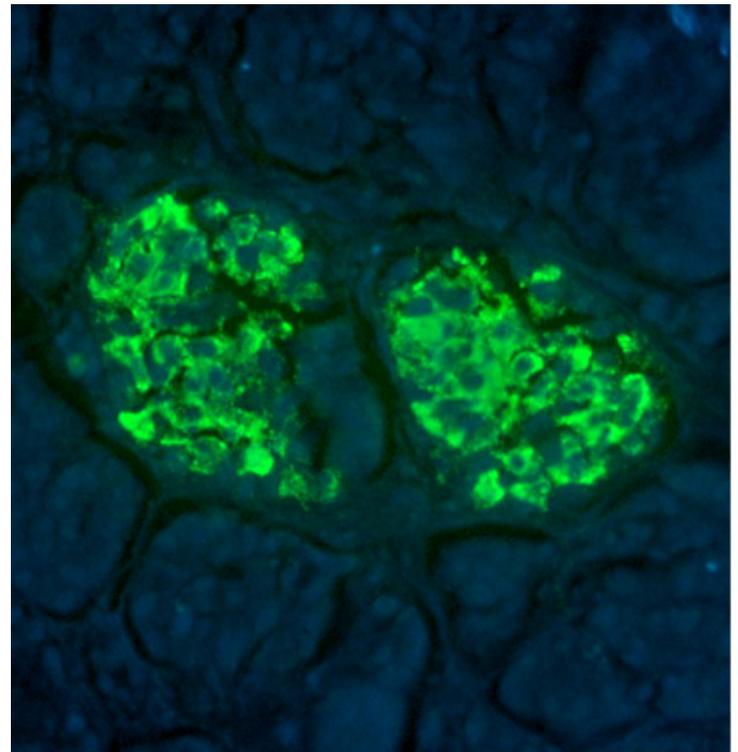


Figure 1 Immunofluorescent analysis of ABfinity™ Insulin Recombinant Rabbit Oligoclonal Antibody (Cat. no. 701289).

Immunofluorescence analysis of human pancreatic tissue section stained with ABfinity™ Insulin Recombinant Rabbit Oligoclonal Antibody. Alexa Fluor® 488 goat anti-rabbit was used as a secondary antibody (green). Pancreatic nuclei were stained with DAPI (blue).

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 Sheet (SDS) and follow the handling instructions. Wear appropriate protective eyewear, clothing and gloves. SDSs are available at www.lifetechnologies.com/support.

Product Documentation

To obtain a Certificate of Analysis or Safety Data Sheet (SDS), visit <http://www.lifetechnologies.com/support>.

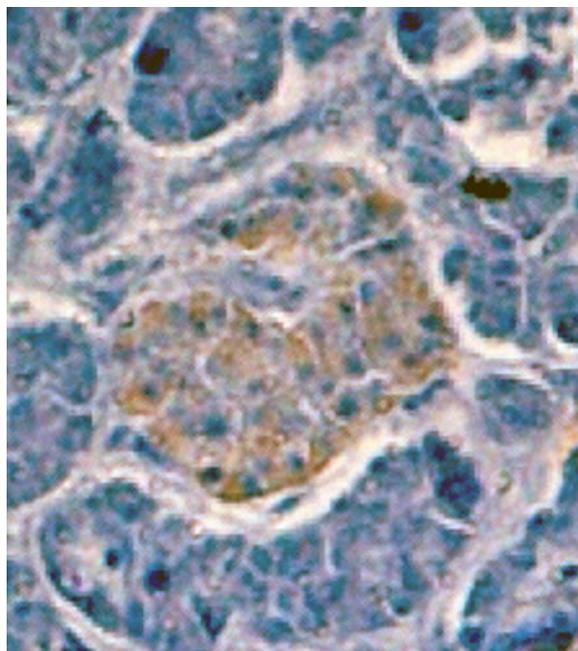


Figure 2 Immunohistochemistry analysis of ABfinity™ Insulin Recombinant Rabbit Oligoclonal Antibody (Cat. no. 710289).

Immunohistochemistry analysis of human pancreatic tissue section stained with ABfinity™ Insulin Recombinant Rabbit Oligoclonal Antibody. HRP conjugated goat anti-rabbit IgG was used as secondary antibody.

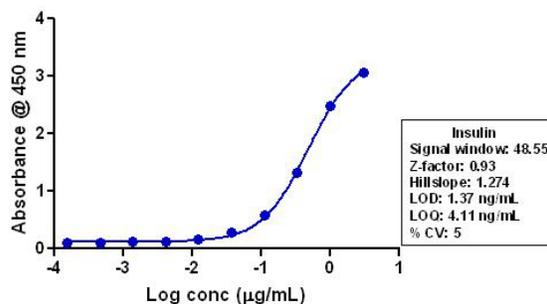


Figure 3 Indirect ELISA of ABfinity™ Insulin Recombinant Rabbit Oligoclonal Antibody (Cat. no. 710289).

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

Limited product warranty

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Explanation of Symbols

Symbol	Description	Symbol	Description	Symbol	Description
	Manufacturer		Catalog number		Batch code
	Use by		Temperature limitation		
	Consult instructions for use		Caution, consult accompanying documents		

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