

IR-beta subunit ABfinity™ Recombinant Rabbit Monoclonal Antibody – Purified

Publication Part no. MAN0005051

Rev. Date: 15 September 2011

Catalog Number: 701049

Store at 2–8°C

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

Host/Class: Rabbit IgG
Reactivity: Human IR-β subunit
Predicted Reactivity: Human

Product Description

Insulin receptor (IR), belongs to the growth factor receptor tyrosine kinase superfamily which regulates multiple signaling pathways. It is a heterotetrameric membrane glycoprotein consisting of alpha and beta subunits encoded by the INSR gene in humans. IR and IGF-1 receptors share major structural and functional similarity. The earliest cellular response to insulin stimulation is autophosphorylation of tyrosine in IR. In humans, the IR gene is located on chromosome 19.

Product Specifications

Immunogen: Recombinant protein corresponding to amino acids 1283–1382 of human insulin receptor
Alternate Names: IR, CD220
Apparent MW: ~95 kDa
Gene ID: 3643
Protein Accession No.: P06213
Sequence Identity: Human
Sequence Homology: Mouse
Clone/PAD: 6H23L15
Lot: See product label

Product Applications

Application	Species	Test Material	Concentration
Western blotting	Human	HeLa cells	1–3 µg/mL
Indirect ELISA	Human	Recombinant protein	1.5 × 10 ⁻⁴ to 3 µg/mL

Storage and Handling

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

Stability

Expires one year from date of receipt when stored as instructed.

Storage Buffer

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

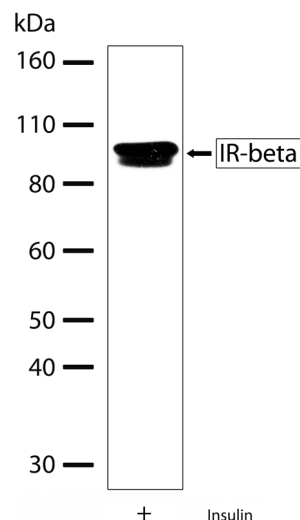


Figure 1 Western blot analysis of IR-beta subunit ABfinity™ Recombinant Rabbit Monoclonal Antibody (Cat. no. 701049). Western blot analysis was performed on whole cell extracts of serum starved HeLa cells treated with insulin (100 ng/mL for 15 minutes). Endogenous IR-beta subunit protein was detected at ~95 kDa using IR-beta subunit ABfinity™ Recombinant Rabbit Monoclonal Antibody at a concentration of 2.5 µg/mL.

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

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Safety Data Sheets (SDS)

Safety Data Sheets (SDSs) are available at www.invitrogen.com/sds.

Certificate of Analysis

The Certificate of Analysis provides detailed quality control and product qualification information for each product. Certificates of Analysis are available on our website. Go to www.invitrogen.com/support and search for the Certificate of Analysis by product lot number, which is printed on the box.

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

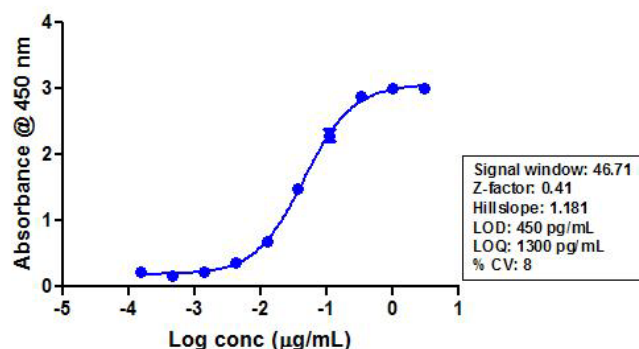


Figure 2 Indirect ELISA of IR-beta subunit ABfinity™ Recombinant Rabbit Monoclonal Antibody (Cat. no. 701049). Indirect ELISA was performed using various dilutions of IR-beta subunit ABfinity™ Recombinant Rabbit Monoclonal Antibody (Cat. no. 701049) to detect recombinant IR-beta subunit protein coated onto the plate. A non-linear regression analysis was performed (4 PL) and LOD and LOQ for the antibody was determined.

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.		

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