

IR beta subunit Rabbit Recombinant Oligoclonal Antibody – Purified

MAN0004612

Rev. Date: 21 June 2011

Catalog Number: 710076

Store at 2–8°C

Clonality: Oligoclonal
Concentration: 0.5 mg/mL

Host/Class: Rabbit IgG
Reactivity: Human Insulin receptor
beta subunit

Quantity: 100 µg
Volume: 200 µL

Predicted Reactivity: Human, Mouse

Product Description

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

Product Specifications

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

Product Applications

Application	Species	Test Material	Concentration
Western blotting	Human	HeLa cells	2–5 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.

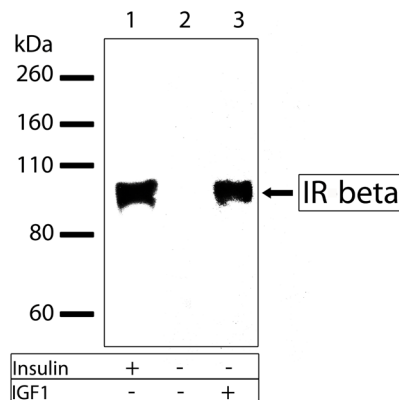


Figure 1 Western blot analysis of IR beta subunit Rabbit Recombinant Oligoclonal Antibody (Cat. no. 710076). Western blot analysis was performed on whole cell extracts of HeLa cells treated with 100 ng/mL insulin for 15 min (lane1); no treatment (lane 2); or treated with 150 ng/mL IGF1 after serum starvation (lane 3). A band corresponding to IR beta subunit at ~95 kDa was detected with IR beta subunit Rabbit Recombinant Oligoclonal Antibody at 2.5 µg/mL.

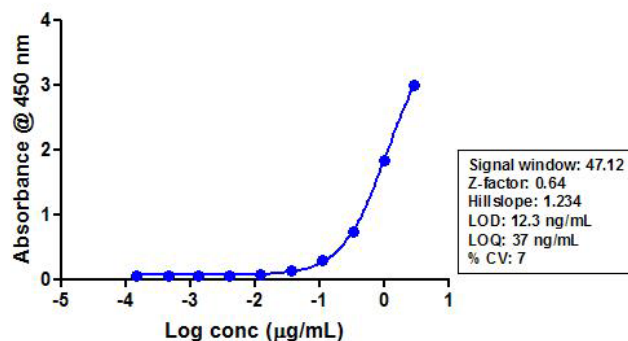


Figure 2 Indirect ELISA of IR beta subunit Rabbit Recombinant Oligoclonal Antibody (Cat. no. 710076). Indirect ELISA was performed using various dilutions of IR beta subunit Rabbit Recombinant Oligoclonal Antibody (Cat. no. 710076) to detect recombinant IR beta subunit protein coated onto the plate. A non-linear regression analysis was performed (4 PL) and LOD and LOQ for the antibody was determined.

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

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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