

Leptin (Rt) Rabbit Recombinant Oligoclonal Antibody – Purified

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Rev. 1.0

Catalog Number: 710145

Store at 2 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: Rat Leptin
Predicted Reactivity: Rat

Product Description

Leptin is a 167-amino acid peptide hormone secreted by adipocytes, and encoded by the obesity gene (*ob*). It plays an important role in regulating food intake, energy expenditure, and adiposity. Serum leptin levels are known to correlate with the amount of body fat, and regulate energy intake and expenditure by interacting with hypothalamic leptin receptors. Leptin also promotes hematopoiesis, influences pubertal development, and fetal growth.

Product Specifications

Immunogen: Recombinant protein corresponding to amino acids 26–59 of rat leptin
Alternate Names: Lep, OB
Apparent MW: ~19 kDa
Gene ID: 25608
Protein Accession No.: P50596
Sequence Identity: Rat
Sequence Homology: Mouse
Clone/PAD: 1HCLC
Lot: See product label

Product Applications

Application	Species	Test Material	Concentration
Western blotting	Rat	Active recombinant protein	2–5 µg/mL
Indirect ELISA	Rat	Recombinant protein	0.5 x 10 ⁻³ to 10 µg/mL

Storage and Handling

Store the antibody at 2 to 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.

Note: Sodium azide is an extremely toxic and dangerous compound particularly when combined with acids or metals. Properly dispose of solutions containing sodium azide.

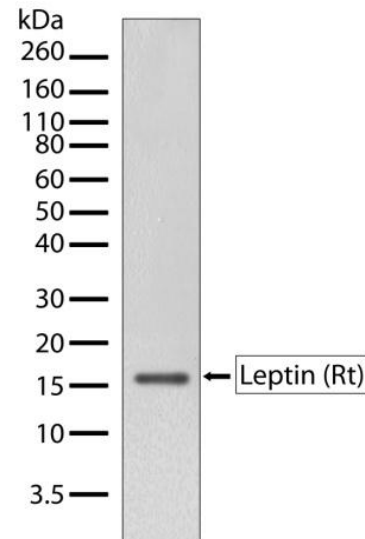


Figure 1 Western blot analysis of Leptin (Rt) Rabbit Recombinant Oligoclonal Antibody (Cat. no. 710145). Western blot analysis was performed on active recombinant rat Leptin. A band corresponding to recombinant rat Leptin at ~16 kDa was detected using Leptin (Rt) Rabbit Recombinant Oligoclonal Antibody at a concentration of 2 µg/mL. The blot was developed using chemiluminescence (ECL) method.

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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

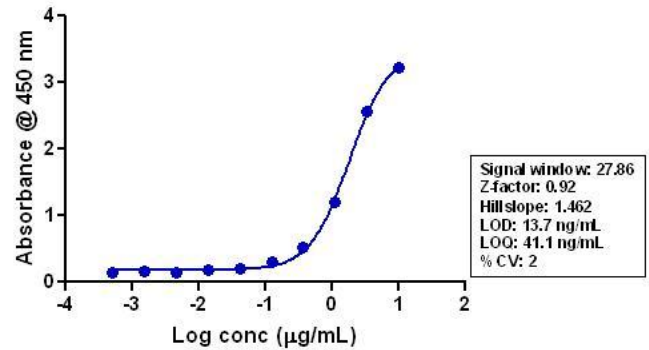


Figure 2 Indirect ELISA of Leptin (Rt) Rabbit Recombinant Oligoclonal Antibody (Cat. no. 710145). Indirect ELISA was performed using various dilutions of Leptin (Rt) Rabbit Recombinant Oligoclonal Antibody (Cat. no. 710145) to detect recombinant rat Leptin protein coated onto the plate. A non-linear 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		<i>In vitro</i> 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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