

ABfinity™ IL-1 beta Recombinant Rabbit Oligoclonal Antibody

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Rev. 1.00

Catalog Number: 710270

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 Interleukin 1
Predicted Reactivity: Human

Product Description

Interleukin 1 beta (IL-1 beta) mediates inflammatory responses and plays an important role in apoptosis, cell proliferation, and differentiation. It is mainly produced by monocytes, but is also produced by macrophages, dendritic cells and a variety of other cells types. IL-1 beta is secreted in its pro-form by activated macrophages which is enzymatically cleaved by caspase 1 to form the active protein. In humans, the gene is located on chromosome 2.

Product Specifications

Immunogen: Recombinant protein corresponding to amino acids 117–269 of human Interleukin 1
Alternate Names: IL1, IL1B, IL1F2, Catabolin
Apparent MW: ~17 kDa
Gene ID: 3553
Protein Accession No.: P01584
Sequence Identity: Human
Sequence Homology: Mouse, Rat, Monkey, Rabbit
Clone/PAD: 1HCLC
Lot: See product label

Product Applications

Application	Species	Test Material	Concentration
Western blotting	Human	THP1 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°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.

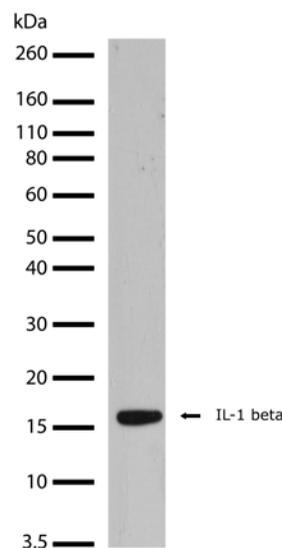


Figure 1 Western blot analysis of ABfinity™ IL-1 beta Recombinant Rabbit Oligoclonal Antibody (Cat. no. 710270).

Western blot analysis was performed on whole cell extracts from THP1 cells treated with LPS (10 µg/mL). Endogenous levels of IL-1 beta was detected at ~17 kDa using ABfinity™ IL-1 beta 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

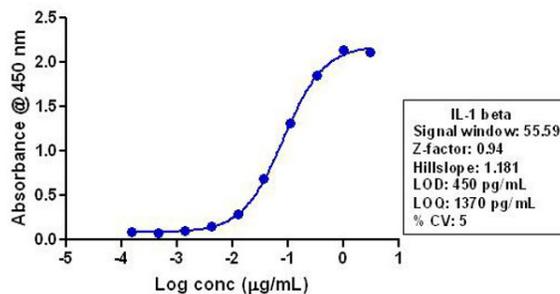


Figure 2 Indirect ELISA of ABfinity™ IL-1 beta Recombinant Rabbit Oligoclonal Antibody (Cat. no. 710270).

Indirect ELISA was performed using various dilutions of ABfinity™ IL-1 beta Recombinant Rabbit Oligoclonal Antibody to detect IL-1 beta recombinant 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.		

Limited Product Warranty

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