

Mouse anti-PRLr-ECD

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Catalog Number: 359200

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

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

Host/Class: Mouse IgG_{2b}κ
Reactivity: Human
Predicted Reactivity: Mouse and rat

Product Description

Prolactin (PRL) is a neuroendocrine hormone that is closely related to growth hormones and more distantly related to the peptide hormones of the interleukin family. The endocrine effects of PRL on human breast tissues include the regulation of growth and differentiation of ductal epithelium, proliferation and differentiation of lobular units, and initiation and maintenance of lactation.¹ PRL and growth hormone receptors are members of the cytokine receptor superfamily. Both the PRLr and growth hormone receptors are single-chain transmembrane proteins composed of extracellular, transmembrane, and intracellular domains. Prolactin modulates immune system function by stimulating the proliferation and survival of cells through its receptor, present on T and B lymphocytes and macrophages. The function of PRL is mediated by a variety of signaling cascades as well as by the wide variety of PRLr isoforms observed in nature. A long form and several other isoforms are expressed in human tissues. This antibody reacts with the long form of the human prolactin receptor (hPRLr) protein at ~85-90 kDa, and may also identify the human prolactin receptor intermediate and delta S1 isoforms by Western blotting. On immunoprecipitation, this antibody strongly recognizes only the long form of hPRLr. During development reactivity was confirmed with human T-47D breast carcinoma cells.

Product Specifications

Immunogen: Recombinant human prolactin receptor protein containing the extracellular domain (ECD).
Apparent MW: ~85-90 kDa
Clone/PAD: 1A2B1
Lot: See product label

Product Applications

Application	Species	Concentration
Immunohistochemistry (paraffin)	Human	5-10 µg/mL
Immunoprecipitation	Human	5-10 µg/mL
Western Blotting	Human	1-3 µg/mL

Storage and Handling

Store at 2 to 8°C for up to one month. Store at -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.

Storage Buffer

Phosphate buffered saline (PBS), pH 7.4, containing 0.1% sodium azide.

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

Safety Data Sheets (SDS)

Safety Data Sheets (SDSs) are available at www.lifetechnologies.com/support.

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.lifetechnologies.com/support and search for the Certificate of Analysis by product lot number, which is printed on the box.

For research use only. Not for use in diagnostic procedures.

Manufacturing Site • 7335 Executive Way • Frederick • MD 21704 • E-mail: techsupport@lifetech.com

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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