

Datasheet: MCA1531EL

Description:	RAT ANTI HUMAN INTERLEUKIN 10:Low Endotoxin
Specificity:	IL-10
Format:	Low Endotoxin
Product Type:	Monoclonal Antibody
Clone:	JES3-9D7
Isotype:	IgG1
Quantity:	0.5 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry (1)	▪			1/10 - 1/50
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			
Immunoprecipitation			▪	
Western Blotting	▪			1/100
Functional Assays	▪			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

(1) **Membrane permeabilisation is required for this application. Bio-Rad recommend the use of Leucoperm™ (Product Code [BUF09](#)) for this purpose.**

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	None Present
Carrier Free	Yes
Endotoxin Level	<0.01EU/ug
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml

Immunogen	Recombinant human IL-10.
External Database Links	<p>UniProt: P22301 Related reagents</p> <p>Entrez Gene: 3586 IL10 Related reagents</p>
Specificity	<p>Rat anti Human Interleukin-10 antibody, clone JES3-9D7 recognizes human Interleukin - 10 (IL-10). IL-10 is an immunoregulatory cytokine which is expressed by activated CD8+ve peripheral blood T-cells, CD4+ve T-cell clones, B cell lymphomas, activated monocytes and mast cells.</p> <p>Rat anti Human Interleukin-10 antibody, clone JES3-9D7 is reported to act as a neutralising antibody (Othieno <i>et al.</i> 1999).</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	<ol style="list-style-type: none"> 1. Abrams, J.S. <i>et al.</i> (1992) Strategies of anti-cytokine monoclonal antibody development: immunoassay of IL-10 and IL-5 in clinical samples. Immunol Rev. 127: 5-24. 2. Othieno, C. <i>et al.</i> (1999) Interaction of Mycobacterium tuberculosis-induced transforming growth factor beta1 and interleukin-10. Infect Immun. 67 (11): 5730-5. 3. Benjamin, J.L. <i>et al.</i> (2011) Randomised, double-blind, placebo-controlled trial of fructo-oligosaccharides in active Crohn's disease Gut 2010.232025 4. Cua, D.J. <i>et al.</i> (1999) Transgenic interleukin 10 prevents induction of experimental autoimmune encephalomyelitis. J Exp Med. 189: 1005-10. 5. Lindmark, E. & Siegbahn, A. (2002) Tissue factor regulation and cytokine expression in monocyte-endothelial cell co-cultures: effects of a statin, an ACE-inhibitor and a low-molecular-weight heparin. Thromb Res. 108 (1): 77-84.
Storage	<p>Store at -20°C only.</p> <p>This product should be stored undiluted.</p> <p>Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
Shelf Life	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10162 available at: 10162: https://www.bio-rad-antibodies.com/uploads/MSDS/10162.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR16...)	DyLight®800
Goat Anti Rat IgG (STAR73...)	RPE
Rabbit Anti Rat IgG (STAR21...)	HRP

Rabbit Anti Rat IgG (STAR17...) [FITC](#)
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...) [DyLight®549](#), [DyLight®649](#), [DyLight®800](#)
Goat Anti Rat IgG (STAR131...) [Alk. Phos.](#), [Biotin](#)
Goat Anti Rat IgG (STAR69...) [FITC](#)
Goat Anti Rat IgG (STAR72...) [HRP](#)

Recommended Negative Controls

[RAT IgG1 NEGATIVE CONTROL:Low Endotoxin \(MCA6004EL\)](#)

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