

## Datasheet: MCA1531EL

<b>Description:</b>	RAT ANTI HUMAN INTERLEUKIN 10:Low Endotoxin
<b>Specificity:</b>	IL-10
<b>Format:</b>	Low Endotoxin
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	JES3-9D7
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://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 permeabilization is required for this application. The use of Leucoperm (Product Code [BUF09](#)) is recommended for this purpose.**

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	None present

<b>Carrier Free</b>	Yes
<b>Endotoxin Level</b>	<0.01 EU/μg
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	Recombinant human IL-10.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P22301</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">3586</a>    IL10    <a href="#">Related reagents</a></p>
<b>RRID</b>	AB_2125382
<b>Specificity</b>	<p><b>Rat anti Human Interleukin-10 antibody, clone JES3-9D7</b> 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 (<a href="#">Othieno et al. 1999</a>).</p>
<b>Flow Cytometry</b>	Use 10μl of the suggested working dilution to label 10 <sup>6</sup> cells in 100μl
<b>References</b>	<ol style="list-style-type: none"> <li>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. <a href="#">Immunol Rev. 127: 5-24.</a></li> <li>2. Cua, D.J. <i>et al.</i> (1999) Transgenic interleukin 10 prevents induction of experimental autoimmune encephalomyelitis. <a href="#">J Exp Med. 189: 1005-10.</a></li> <li>3. Lindmark, E. &amp; 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. <a href="#">Thromb Res. 108 (1): 77-84.</a></li> <li>4. Malmassari, S.L. <i>et al.</i> (2007) Impact of hepatitis B virus basic core promoter mutations on T cell response to an immunodominant HBx-derived epitope. <a href="#">Hepatology. 45 (5): 1199-209.</a></li> <li>5. Benjamin, J.L. <i>et al.</i> (2011) Randomised, double-blind, placebo-controlled trial of fructo-oligosaccharides in active Crohn's disease. <a href="#">Gut. 60 (7): 923-9.</a></li> </ol>
<b>Storage</b>	<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 micro-centrifugation before use.</p>
<b>Guarantee</b>	12 months from date of despatch

**Health And Safety Information** Material Safety Datasheet documentation #10162 available at:  
<https://www.bio-rad-antibodies.com/SDS/MCA1531EL>  
10162

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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR16...)	<a href="#">DyLight@800</a>
Rabbit Anti Rat IgG (STAR17...)	<a href="#">FITC</a>
Goat Anti Rat IgG (STAR72...)	<a href="#">HRP</a>
Goat Anti Rat IgG (STAR69...)	<a href="#">FITC</a>
Goat Anti Rat IgG (STAR73...)	<a href="#">RPE</a>
Rabbit Anti Rat IgG (STAR21...)	<a href="#">HRP</a>
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	<a href="#">DyLight@550</a> , <a href="#">DyLight@650</a> , <a href="#">DyLight@800</a>
Goat Anti Rat IgG (STAR131...)	<a href="#">Alk. Phos.</a> , <a href="#">Biotin</a>

### Recommended Negative Controls

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

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)  
'M409946:221021'

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