

## Datasheet: MCA1525PE

<b>Description:</b>	RAT ANTI HUMAN INTERLEUKIN-4:RPE
<b>Specificity:</b>	IL-4
<b>Format:</b>	RPE
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	MP4-25D2
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	100 TESTS

### 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)	▪			Neat

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.**

#### Target Species

Human

#### Species Cross Reactivity

Reacts with: Rhesus Monkey

**N.B.** Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

#### Product Form

Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized

#### Reconstitution

Reconstitute with 1.0 ml distilled water

Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	RPE 488nm laser	496	578
	RPE 561nm laser	590	620

<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</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Stabilisers</b>	1% Bovine Serum Albumin 5% Sucrose
<b>Immunogen</b>	Purified CHO cell expressed recombinant human IL-4.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P05112</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">3565</a>    IL4    <a href="#">Related reagents</a></p>
<b>Specificity</b>	<p><b>Rat anti Human Interleukin-4 antibody, clone MP4-25D2</b> recognizes human Interleukin-4 (IL-4), also known as B-cell stimulatory factor 1, Binetrakin, Pitrakinra or Lymphocyte stimulatory factor 1. Interleukin-4 is a 153 amino acid ~17kDa cytokine involved in the activation of B cells, macrophages and monocytes (UniProt: P05112).</p> <p>Polymorphisms in the IL-4 gene are associated with susceptibility to, and outcome of ischemic stroke (<a href="#">Marousi et al. 2011</a>).</p> <p>Rat anti Human Interleukin-4 antibody, clone MP4-25D2 is reported to neutralize IL-4 activity (<a href="#">Abrams et al. 1992</a> and <a href="#">Carvalho et al. 1994</a>).</p>
<b>Flow Cytometry</b>	Use 10µl of the suggested working dilution to label 1x10 <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. Carvalho, E.M. <i>et al.</i> (1994) Restoration of IFN-gamma production and lymphocyte proliferation in visceral leishmaniasis. <a href="#">J Immunol. 152 (12): 5949-56.</a></li> <li>3. P, M. <i>et al.</i> (2004) Tumor-derived MUC1 mucins interact with differentiating monocytes and induce IL-10<sup>high</sup>IL-12<sup>low</sup> regulatory dendritic cell. <a href="#">J Immunol. 172 (12): 7341-9.</a></li> <li>4. Raulf-Heimsoth, M. (2008) T cell - primary culture from peripheral blood. <a href="#">Methods Mol Med. 138: 17-30.</a></li> </ol>
<b>Storage</b>	<p>Prior to reconstitution store at +4°C.  After reconstitution store at +4°C.  DO NOT FREEZE.</p> <p>This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
<b>Guarantee</b>	12 months from date of despatch

**Health And Safety  
Information**

Material Safety Datasheet documentation #20487 available at:  
<https://www.bio-rad-antibodies.com/SDS/MCA1525PE>  
20487

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Negative Controls

[RAT IgG1 NEGATIVE CONTROL:RPE \(MCA6004PE\)](#)

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

**Worldwide**

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Fax: +44 (0)1865 852 739

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

**Europe**

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)  
'M432642:240906'

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