

## Datasheet: MCA1302PE

<b>Description:</b>	RAT ANTI MOUSE INTERLEUKIN-10:RPE
<b>Specificity:</b>	IL-10
<b>Format:</b>	RPE
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	JES5-2A5
<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 antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

**(1)Membrane permeabilization is required for this application. Bio-Rad recommends the use of Leucoperm (BUF09) for this purpose.**

<b>Target Species</b>	Mouse
-----------------------	-------

<b>Species Cross Reactivity</b>	Reacts with: Goat <b>N.B.</b> Antibody reactivity and working conditions may vary between species.
---------------------------------	-------------------------------------------------------------------------------------------------------

<b>Product Form</b>	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized
---------------------	-----------------------------------------------------------------

<b>Reconstitution</b>	Reconstitute with 1ml distilled water Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution.
-----------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Max Ex/Em	Fluorophore	Excitation (nm)	Emission (nm)
	PE 488nm laser	496	578
	PE 561nm laser	546	578

<b>Buffer Solution</b>	Phosphate buffered saline
------------------------	---------------------------

<b>Preservative Stabilisers</b>	0.09% Sodium Azide 0.5% Bovine Serum Albumin 5% Sucrose
---------------------------------	---------------------------------------------------------------

<b>Immunogen</b>	Recombinant Mouse IL-10.
------------------	--------------------------

<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P18893</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">16153</a>    IL10    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	IL-10
<b>Fusion Partners</b>	Spleen cells from immunized rats were fused with cells of the mouse P3.X63 Ag8.653 myeloma cell line.
<b>Specificity</b>	<p><b>Rat anti Mouse Interleukin-10 antibody, clone JES5-2A5</b> recognizes mouse Cytokine synthesis inhibitory factor (CSIF), also known as interleukin-10 (IL-10). IL-10 is produced by Ly-1(CD5) expressing B cells (<a href="#">O'Garra et al. 1992</a>) and a subset of stimulated T cells (<a href="#">Asseman et al. 1999</a>).</p> <p>IL-10 has a wide range of biological properties, including the inhibition of macrophage and T helper cell mediated cytokine synthesis, and the suppression of the delayed hypersensitivity response.</p> <p>Rat anti Mouse Interleukin-10 antibody, clone JES5-2A5 is reported to neutralize the activity of murine IL-10 (<a href="#">Weber-Nordt et al. 1994</a>).</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 1x10 <sup>6</sup> cells in 100ul.
<b>References</b>	<ol style="list-style-type: none"> <li>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="#">Immunological Review 127: 5-24.</a></li> <li>Sander, B. <i>et al.</i> (1993) Similar frequencies and kinetics of cytokine producing cells in murine peripheral blood and spleen. Cytokine detection by immunoassay and intracellular immunostaining <a href="#">J. Immunol. Methods. 166: 201-14.</a></li> <li>Guesdon, J.L. <i>et al.</i> (1979) The use of avidin-biotin interaction in immunoenzymatic techniques. <a href="#">J. Histochem. Cytochem. 27: 1131-1139.</a></li> <li>Nishigori, C. <i>et al.</i> (1998) Hind III liposomes suppress delayed-type hypersensitivity responses in vivo and induce epidermal IL-10 in vitro. <a href="#">J. Immunol. 161:2684-2691.</a></li> <li>Weber-Nordt, R. <i>et al.</i> (1994) Lipopolysaccharide-dependent induction of IL-10 receptor expression on murine fibroblasts. <a href="#">J. Immunol. 153:3734-3744.</a></li> <li>Rennick, D. <i>et al.</i> (1995) Cofactors are essential for stem cell factor-dependent growth and maturation of mast cell progenitors: comparative effects of interleukin-3 (IL-3), IL-4, IL-10, and fibroblasts. <a href="#">Blood. 85: 57-65.</a></li> <li>Sacco, S. <i>et al.</i> (1997) Protective effect of a single Interleukin-12 (IL-12) predose against the toxicity of subsequent chronic IL-12 in mice: Role of cytokines and glucocorticoids. <a href="#">Blood. 90:4473-4479.</a></li> <li>Biswas, S.K. <i>et al.</i> (2006) A distinct and unique transcriptional program expressed by tumor-associated macrophages (defective NF-kappaB and enhanced IRF-3/STAT1 activation). <a href="#">Blood. 107: 2112-22.</a></li> <li>Gaupp, S. <i>et al.</i> (2008) Amelioration of experimental autoimmune encephalomyelitis in IL-4Ralpha<sup>-/-</sup> mice implicates compensatory up-regulation of Th2-type cytokines. <a href="#">Am J Pathol. 173: 119-29.</a></li> <li>Gonzalez-Juarrero, M. <i>et al.</i> (2013) Polar Lipids of <i>Burkholderia pseudomallei</i> Induce Different Host Immune Responses. <a href="#">PLoS One. 8: e80368.</a></li> </ol>

**Storage** Store at +4°C.

DO NOT FREEZE.

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.

---

**Shelf Life** 12 months from date of reconstitution.

---

**Health And Safety Information** Material Safety Datasheet Documentation #10075 available at: <https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf>

---

**Regulatory** For research purposes only

---

## Related Products

### Recommended Useful Reagents

[MOUSE SEROBLOCK FcR \(BUF041A\)](#)

[MOUSE SEROBLOCK FcR \(BUF041B\)](#)

**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**

Tel: +44 (0)1865 852 700

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)

'M304527:170407'

**Printed on 07 Apr 2017**

---

© 2017 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)