

## Datasheet: MCA1302G

**BATCH NUMBER 154985**

<b>Description:</b>	RAT ANTI MOUSE INTERLEUKIN-10
<b>Specificity:</b>	IL-10
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	JES5-2A5
<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 - 1/100
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA	▪			1/200 - 1/2000
Immunoprecipitation			▪	
Western Blotting	▪			1/1000

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>	<p>Reacts with: Goat</p> <p><b>N.B.</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.</p>
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture

supernatant

---

**Buffer Solution** Phosphate buffered saline

---

**Preservative Stabilisers** 0.09% Sodium Azide

---

**Carrier Free** Yes

---

**Approx. Protein Concentrations** IgG concentration 1.0 mg/ml

---

**Immunogen** Recombinant Mouse IL-10.

---

**External Database Links**

**UniProt:**

[P18893](#)

[Related reagents](#)

**Entrez Gene:**

[16153](#)

IL10

[Related reagents](#)

---

**Synonyms** IL-10

---

**RRID** AB\_2125093

---

**Fusion Partners** Spleen cells from immunized rats were fused with cells of the mouse P3.X63 Ag8.653 myeloma cell line.

---

**Specificity** **Rat anti Mouse Interleukin-10 antibody, clone JES5-2A5** 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 ([O'Garra \*et al.\* 1992](#)) and a subset of stimulated T cells ([Asseman \*et al.\* 1999](#)).

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.

Rat anti Mouse Interleukin-10 antibody, clone JES5-2A5 is reported to neutralize the activity of murine IL-10 ([Weber-Nordt \*et al.\* 1994](#)).

---

**Flow Cytometry** Use 10ul of the suggested working dilution to label  $1 \times 10^6$  cells in 100ul.

---

**References**

1. Abrams, J.S. *et al.* (1992) Strategies of anti-cytokine monoclonal antibody development: immunoassay of IL-10 and IL-5 in clinical samples. [Immunological Review 127: 5-24.](#)
2. Sander, B. *et al.* (1993) Similar frequencies and kinetics of cytokine producing cells in murine peripheral blood and spleen. Cytokine detection by immunoassay and intracellular immunostaining. [J Immunol Methods. 166 \(2\): 201-14.](#)
3. Nishigori, C. *et al.* (1998) HindIII liposomes suppress delayed-type hypersensitivity responses *in vivo* and induce epidermal IL-10 *in vitro*. [J Immunol. 161 \(6\): 2684-91.](#)

4. Weber-nordt, R.M. *et al.* (1994) Lipopolysaccharide-dependent induction of IL-10 receptor expression on murine fibroblasts. [J Immunol. 153 \(8\): 3734-44.](#)
5. Rennick, D. *et al.* (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. [Blood. 85: 57-65.](#)
6. Biswas, S.K. *et al.* (2006) A distinct and unique transcriptional program expressed by tumor-associated macrophages (defective NF-kappaB and enhanced IRF-3/STAT1 activation). [Blood. 107: 2112-22.](#)
7. Gaupp, S. *et al.* (2008) Amelioration of experimental autoimmune encephalomyelitis in IL-4Ralpha-/- mice implicates compensatory up-regulation of Th2-type cytokines. [Am J Pathol. 173: 119-29.](#)
8. Gonzalez-Juarrero, M. *et al.* (2013) Polar Lipids of *Burkholderia pseudomallei* Induce Different Host Immune Responses. [PLoS One. 8: e80368.](#)
9. Higgins, J.L. *et al.* (2018) Cell mediated immune response in goats after experimental challenge with the virulent *Brucella melitensis* strain 16M and the reduced virulence strain Rev. 1. [Vet Immunol Immunopathol. 202: 74-84.](#)
10. Hammond, J.W. *et al.* (2018) HIV Tat causes synapse loss in a mouse model of HIV-associated neurocognitive disorder that is independent of the classical complement cascade component C1q. [Glia. 66 \(12\): 2563-74.](#)

---

**Storage** Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

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.

---

**Guarantee** 12 months from date of despatch

---

**Health And Safety Information** Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/MCA1302G>  
10040

---

**Regulatory** For research purposes only

## 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>

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

**Worldwide** Tel: +44 (0)1865 852 700

**Europe** Tel: +49 (0) 89 8090 95 21

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

Fax: +44 (0)1865 852 739

Fax: +49 (0) 89 8090 95 50

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

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

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

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)

'M365114:200529'

**Printed on 22 Nov 2023**

---

© 2023 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)