

Datasheet: MCA1302G

Description:	RAT ANTI MOUSE INTERLEUKIN-10
Specificity:	IL-10
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	JES5-2A5
Isotype:	IgG1
Quantity:	0.5 mg

Product Details

RRID AB_2125093

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 - 1/100
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.**

Target Species Mouse

Species Cross Reactivity Reacts with: Goat
N.B. Antibody reactivity and working conditions may vary between species.

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 0.09% Sodium Azide

Carrier Free Yes

Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Recombinant Mouse IL-10.
External Database Links	<p>UniProt: P18893 Related reagents</p> <p>Entrez Gene: 16153 IL10 Related reagents</p>
Synonyms	IL-10
Fusion Partners	Spleen cells from immunized rats were fused with cells of the mouse P3.X63 Ag8.653 myeloma cell line.
Specificity	<p>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).</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 (Weber-Nordt et al. 1994).</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul.
References	<ol style="list-style-type: none"> 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. Immunological Review 127: 5-24. 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. J Immunol Methods. 166 (2): 201-14. Guesdon, J.L. <i>et al.</i> (1979) The use of avidin-biotin interaction in immunoenzymatic techniques. J Histochem Cytochem. 27 (8): 1131-9. Nishigori, C. <i>et al.</i> (1998) HindIII liposomes suppress delayed-type hypersensitivity responses <i>in vivo</i> and induce epidermal IL-10 <i>in vitro</i>. J Immunol. 161 (6): 2684-91. Weber-nordt, R.M. <i>et al.</i> (1994) Lipopolysaccharide-dependent induction of IL-10 receptor expression on murine fibroblasts. J Immunol. 153 (8): 3734-44. 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. Blood. 85: 57-65. 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. Blood. 90 (11): 4473-9. 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). Blood. 107: 2112-22. Gaupp, S. <i>et al.</i> (2008) Amelioration of experimental autoimmune encephalomyelitis in IL-4Ralpha^{-/-} mice implicates compensatory up-regulation of Th2-type cytokines. Am J Pathol. 173: 119-29. Gonzalez-Juarrero, M. <i>et al.</i> (2013) Polar Lipids of <i>Burkholderia pseudomallei</i> Induce Different

Host Immune Responses. [PLoS One. 8: e80368.](#)

11. 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.](#)

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 18 months from date of despatch.

Health And Safety Information Material Safety Datasheet documentation #10040 available at: 10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR17...)	FITC
Goat Anti Rat IgG (STAR69...)	FITC
Goat Anti Rat IgG (STAR131...)	Alk. Phos., Biotin
Goat Anti Rat IgG (STAR73...)	RPE
Rabbit Anti Rat IgG (STAR21...)	HRP
Goat Anti Rat IgG (STAR72...)	HRP
Rabbit Anti Rat IgG (STAR16...)	DyLight®800
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	DyLight®800

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'M341583:190109'

Printed on 20 May 2019

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