

Datasheet: MCA1302G

BATCH NUMBER 1708

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

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	<p>Reacts with: Goat</p> <p>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.</p>
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

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 1×10^6 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...)	DyLight@800
Rabbit Anti Rat IgG (STAR17...)	FITC
Goat Anti Rat IgG (STAR72...)	HRP
Goat Anti Rat IgG (STAR69...)	FITC
Goat Anti Rat IgG (STAR73...)	RPE
Rabbit Anti Rat IgG (STAR21...)	HRP
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	DyLight@550 , DyLight@650 , DyLight@800
Goat Anti Rat IgG (STAR131...)	Alk. Phos. , Biotin

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batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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