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

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 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

Mouse

Species Cross Reactivity

Reacts with: Goat

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 - 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 (NaN_3)
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 10µl of the suggested working dilution to label $1x10^6$ cells in 100µl
References	1. 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. 2. 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. 3. Weber-nordt, R.M. *et al.* (1994) Lipopolysaccharide-dependent induction of IL-10 receptor expression on murine fibroblasts. J Immunol. 153 (8): 3734-44.

4. 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.
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8. 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.
9. 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.
10. Tang, S.Y. *et al.* (2023) Granulocyte Colony-Stimulating Factor Improves Endothelial Progenitor Cell-Mediated Neovascularization in Mice with Chronic Kidney Disease. Pharmaceutics. 15 (10): 2380.
11. Arad, T. *et al.* (2021) CD200 -dependent and -independent immune-modulatory functions of neural stem cells. Stem Cell Res. 56: 102559.
12. Bellizzi, M.J. *et al.* (2018) The Mixed-Lineage Kinase Inhibitor URMC-099 Protects Hippocampal Synapses in Experimental Autoimmune Encephalomyelitis. eNeuro. 5 (6): ENEURO.0245-18.

Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C. Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.
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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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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