

# Datasheet: MCA1302G

Description:	RAT ANTI MOUSE INTERLEUKIN-10
Specificity:	IL-10
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	JES5-2A5
lsotype:	lgG1
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 <u>www.bio-</u>					
	rad-antibodies.com/proto	Yes	No	Not Determined	Suggested Dilution	
	Flow Cytometry (1)		NO	Not Determined	1/10 - 1/100	
	Immunohistology - Frozen				1,10 1,100	
	Immunohistology - Paraffin			•		
	ELISA	•			1/200 - 1/2000	
	Immunoprecipitation			•		
	Western Blotting	-			1/1000	
	<ul> <li>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.</li> <li>(1) Membrane permeabilization is required for this application. The use of Leucoperm (Product Code <u>BUF09</u>) is recommended for this purpose.</li> </ul>					
Target Species	Mouse					
Species Cross Reactivity	Reacts with: Goat <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.					
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 <sub>3</sub> )		
Carrier Free	Yes		
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml		
Immunogen	Recombinant Mouse IL-10.		
External Database Links	UniProt: <u>P18893</u> <u>Related reagents</u> Entrez Gene: <u>16153</u> II10 <u>Related reagents</u>		
Synonyms	II-10		
RRID	AB_2125093		
Fusion Partners	Spleen cells from immunized rats were fused with cells of the myeloma cell line.	mouse P3.X63 Ag8.653	
Specificity	<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 (O'Garra <i>et al.</i> 1992) and a subset of stimulated T cells (Asseman <i>et al.</i> 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 repactivity of murine IL-10 ( <u>Weber-Nordt <i>et al.</i> 1994</u> ).	ported to neutralize the	
Flow Cytometry	Use 10µl of the suggested working dilution to label $1x10^6$ cells in $100µl$		
References	<ol> <li>Sander, B. <i>et al.</i> (1993) Similar frequencies and kinetics of murine peripheral blood and spleen. Cytokine detection by immi immunostaining. <u>J Immunol Methods. 166 (2): 201-14.</u></li> <li>Nishigori, C. <i>et al.</i> (1998) HindIII liposomes suppress delayer responses <i>in vivo</i> and induce epidermal IL-10 <i>in vitro</i>. <u>J Immu</u></li> <li>Weber-nordt, R.M. <i>et al.</i> (1994) Lipopolysaccharide-dependence receptor expression on murine fibroblasts. <u>J Immunol. 153 (8)</u></li> </ol>	munoassay and intracellular ed-type hypersensitivity nol. 161 (6): 2684-91. lent induction of IL-10	

	<ol> <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. <u>Blood. 85: 57-65.</u></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). <u>Blood. 107: 2112-22.</u></li> <li>Gaupp, S. <i>et al.</i> (2008) Amelioration of experimental autoimmune encephalomyelitis in IL-4Ralpha-/- mice implicates compensatory up-regulation of Th2-type cytokines. <u>Am J Pathol. 173: 119-29.</u></li> <li>Gonzalez-Juarrero, M. <i>et al.</i> (2013) Polar Lipids of <i>Burkholderia pseudomallei</i> Induce Different Host Immune Responses. <u>PLoS One. 8: e80368.</u></li> <li>Higgins, J.L. <i>et al.</i> (2018) Cell mediated immune response in goats after experimental challenge with the virulent <i>Brucella melitensis</i> strain 16M and the reduced virulence strain Rev. 1. <u>Vet Immunol Immunopathol. 202: 74-84.</u></li> <li>Hammond, J.W. <i>et al.</i> (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. <u>Glia. 66 (12): 2563-74.</u></li> <li>Tang, S.Y. <i>et al.</i> (2023) Granulocyte Colony-Stimulating Factor Improves Endothelial Progenitor Cell-Mediated Neovascularization in Mice with Chronic Kidney Disease. <u>Pharmaceutics. 15 (10): 2380.</u></li> <li>Arad, T. <i>et al.</i> (2021) CD200 -dependent and -independent immune-modulatory functions of neural stem cells. <u>Stem Cell Res. 56: 102559.</u></li> </ol>
	<ul> <li>12. Bellizzi, M.J. <i>et al.</i> (2018) The Mixed-Lineage Kinase Inhibitor URMC-099 Protects Hippocampal Synapses in Experimental Autoimmune Encephalomyelitis. <u>eNeuro. 5 (6)</u>: <u>ENEURO.0245-18.</u></li> <li>13. Kontogianni, G.I. <i>et al.</i> (2025) A Mechanically Stimulated Co-culture in 3-Dimensional Composite Scaffolds Promotes Osteogenic and Anti-osteoclastogenic Activity and M2 Macrophage Polarization. <u>Biomater Res. 29: 0135.</u></li> </ul>
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 A	nti Rat IgG (STAR16)		DyLight®800				
Rabbit Anti Rat IgG (STAR17)			<u>FITC</u>	FITC			
Goat Anti Rat IgG (STAR73)			<u>RPE</u>	RPE			
Rabbit Anti Rat IgG (STAR21)			HRP	HRP			
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71) <u>DyLight®550</u> , <u>DyLight®650</u> , <u>DyLight®800</u>							
Goat Anti Rat IgG (STAR131) <u>Alk. Phos.</u> , <u>Biotin</u>							
Goat Anti Rat IgG (STAR72) HRP							
Goat Ant	i Rat IgG (STAR69)		<u>FITC</u>				
North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50		
		Email: antibody_sales_uk@bio	-rad.com	Email: antibody_sales_de@bio-rad.com			
To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M437957:250320'							

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