

Datasheet: MCA2250

Description:	RAT ANTI HUMAN INTERLEUKIN-10
Specificity:	IL-10
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	JES3-12G8
Isotype:	IgG2a
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)	■			
Immunohistology - Frozen			■	
Immunohistology - Paraffin (2)	■			1/50 - 1/100
ELISA	■			
Immunoprecipitation			■	
Western Blotting	■			1/50 - 1/250

Where this antibody 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 antibody for use in their own system using the appropriate negative/positive controls.

(1) **Membrane permeabilisation is required for this application. Bio-Rad recommends the use of Leucoperm™ (Product Code [BUF09](#)) for this purpose.**

(2) **This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.**

Target Species	Human
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	Human IL-10 expressed by COS cells.
External Database Links	UniProt: P22301 Related reagents Entrez Gene: 3586 IL10 Related reagents
Specificity	Rat anti Human Interleukin-10 antibody, clone JES3-12G8 recognizes human Interleukin-10 (IL-10). IL-10 is expressed by activated CD8+ peripheral blood T-cells, activated T-helper CD4+ T cell clones mast cells, B cell lymphomas and LPS activated monocytes. Rat anti Human Interleukin-10 antibody, clone JES3-12G8 is reported to neutralize the effects of IL-10 (Abrams <i>et al.</i> 1992).
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul.
Histology Positive Control Tissue	Human Tonsil
References	1. Brodeur, N.D. and Spencer, J.V. (2010) Antibodies to human IL-10 neutralize ebvIL-10-mediated cytokine suppression but have no effect on cmvIL-10 activity. Virus Res. 153: 265-8. 2. Burdin, N. <i>et al.</i> (1993) Epstein-Barr virus transformation induces B lymphocytes to produce human interleukin 10. J Exp Med. 177 (2): 295-304. 3. O'farrell, A.M. <i>et al.</i> (1998) IL-10 inhibits macrophage activation and proliferation by distinct signaling mechanisms: evidence for Stat3-dependent and -independent pathways. EMBO J. 17 (4): 1006-18. 4. Abrams, J. <i>et al.</i> (1992) Strategies of anti-cytokine monoclonal antibody development: Immunoassay of IL-10 and IL-5 in clinical samples. Immunol. Rev. 127:5-24. 5. Wakkach, A. <i>et al.</i> (2001) Differentiation of regulatory T cells 1 is induced by CD2 costimulation. J Immunol. 167: 3107-13. 6. Dybiec, M. <i>et al.</i> (2007) Photoluminescence spectroscopy of bioconjugated CdSe/ZnS quantum dots Appl. Phys. Lett. 90, 263112. 7. Ramgir, N.S. <i>et al.</i> (2007) Voltammetric Detection of Cancer Biomarkers Exemplified by Interleukin-10 and Osteopontin with Silica Nanowires J. Phys. Chem. C, 111:13981-7. 8. Zajac, A. <i>et al.</i> (2007) Protein microarrays and quantum dot probes for early cancer detection. Colloids Surf B Biointerfaces. 58: 309-14.
Further Reading	1. Gomes, J. <i>et al.</i> (2003) Evidence that development of severe cardiomyopathy in human Chagas' disease is due to a Th1-specific immune response. Infect. Immun. 71:1185-1193. 2. Yssel, H. <i>et al.</i> (1992) IL-10 is produced by subsets of human CD4+ T cell clones and peripheral blood T cells. J Immunol. 149 (7): 2378-84.
Storage	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life	18 months from date of despatch.
Health And Safety	Material Safety Datasheet documentation #10040 available at:

Information 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 (STAR16...)	DyLight®800
Goat Anti Rat IgG (STAR73...)	RPE
Rabbit Anti Rat IgG (STAR21...)	HRP
Rabbit Anti Rat IgG (STAR17...)	FITC
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	DyLight®549 , DyLight®649 , DyLight®800
Goat Anti Rat IgG (STAR131...)	Alk. Phos. , Biotin
Goat Anti Rat IgG (STAR69...)	FITC
Goat Anti Rat IgG (STAR72...)	HRP

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