

Datasheet: MCA1493

Description:	RAT ANTI MOUSE INTERLEUKIN-2
Specificity:	IL-2
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	JES6-1A12
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			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			1ug/ml - 4ug/ml
Immunoprecipitation	▪			
Western Blotting	▪			1ug/ml - 5ug/ml

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 appropriate negative/positive controls.

Target Species	Mouse
Species Cross Reactivity	Does not react with:Rat
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography 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	<i>E. coli</i> expressed recombinant mouse IL-2.
External Database Links	<p>UniProt: P04351 Related reagents</p> <p>Entrez Gene: 16183 IL2 Related reagents</p>
Synonyms	IL-2
Specificity	<p>Rat anti mouse IL-2, clone JES6-1A12 recognizes mouse Interleukin-2. IL-2 is a cytokine required for T-cell proliferation.</p> <p>Rat anti mouse IL-2, clone JES6-1A12 is reported to have neutralizing activity for IL-2 (Abrams et al. 1992) and Bihl et al. 2010).</p>
ELISA	Clone JES6-1A12 may be used in an indirect ELISA or as the capture reagent in a sandwich ELISA with MCA1303G clone JES6-5H4 as the detection reagent. Conjugation of MCA1303G will be required. Bio-Rad recommends the use of LYNX rapid conjugation kits .
References	<ol style="list-style-type: none"> 1. 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. Immunol. Rev. 127: 5-24. 2. 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: 201-214. 3. Rigby S. <i>et al.</i> (2003) Total lymphoid irradiation nonmyeloablative preconditioning enriches for IL-4 producing CD4+ - TNK cells and skews differentiation of immunocompetent donor CD4+ cells. Blood 101:2024-2032. 4. Eyles J. <i>et al.</i> (2002) Negative regulation of interleukin-12 signaling by suppressor of cytokine signaling-1. J. Biol Chem 277:43735-43740. 5. Kitching A. <i>et al.</i> (2000) IL-18 has IL-12-independent effects in delayed-type hypersensitivity : studies in cell-mediated crescentic glomerulonephritis. J. Immunol. 165:4649-4657. 6. Bihl, F. <i>et al.</i> (2010) Primed antigen-specific CD4+ T cells are required for NK cell activation in vivo upon Leishmania major infection. J Immunol. 185: 2174-81 7. Tachibana, M. <i>et al.</i> (2000) Coreceptor function of mutant human CD4 molecules without affinity to gp120 of human immunodeficiency virus. J Biol Chem. 275: 20288-94.
Storage	<p>Store at +4°C or at -20°C if preferred.</p> <p>This product should be stored undiluted.</p> <p>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.</p>
Shelf Life	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 (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

Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL \(MCA1212\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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Printed on 05 May 2018

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