# Datasheet: MCA1493

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| **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 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.

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| **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 ($NaN_3$) |

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| **Carrier Free** | Yes |
| **Approx. Protein Concentrations** | IgG concentration 1.0 mg/ml |
| **Immunogen** | *E. coli* expressed recombinant mouse IL-2. |
| **External Database Links** | **UniProt:**<br>P04351 Related reagents<br><br>**Entrez Gene:**<br>16183 Il2 Related reagents |
| **Synonyms** | Il-2 |
| **RRID** | AB_322133 |
| **Specificity** | **Rat anti mouse IL-2, clone JES6-1A12** recognizes mouse Interleukin-2. IL-2 is a cytokine required for T-cell proliferation.<br><br>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). |
| **ELISA** | Rat anti mouse interleukin-2 antibody, 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 reccomends the use of LYNX rapid conjugation kits. |
| **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. Immunol Rev. 127: 5-24.<br>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.<br>3. Tachibana, M. *et al*. (2000) Coreceptor function of mutant human CD4 molecules without affinity to gp120 of human immunodeficiency virus. J Biol Chem. 275: 20288-94. |
| **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.<br><br>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:<br>https://www.bio-rad-antibodies.com/SDS/MCA1493<br>10040 |

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| **Regulatory** | For research purposes only |

## Related Products

### Recommended Secondary Antibodies

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| Rabbit Anti Rat IgG (STAR16...) | DyLight®800 |
| Goat Anti Rat IgG (STAR131...) | Alk. Phos., Biotin |
| 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 |

### Recommended Negative Controls

RAT IgG2a NEGATIVE CONTROL (MCA1212)


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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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