

Datasheet: MCA822

BATCH NUMBER 171101

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| Description: | MOUSE ANTI HUMAN CD126/IL-6R |
| Specificity: | CD126 |
| Other names: | INTERLEUKIN-6 RECEPTOR |
| Format: | Purified |
| Product Type: | Monoclonal Antibody |
| Clone: | B-R6 |
| Isotype: | IgG1 |
| Quantity: | 0.1 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 | ▪ | | | 1/50 |
| Immunohistology - Frozen | ▪ | | | |
| Immunohistology - Paraffin | | | ▪ | |
| ELISA | ▪ | | | |
| Immunoprecipitation | ▪ | | | |
| Western Blotting | | | ▪ | |
| Immunofluorescence | ▪ | | | |

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.

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| Target Species | Human |
| Product Form | Purified IgG - liquid |
| Preparation | Purified IgG prepared by ion exchange chromatography |
| Buffer Solution | Phosphate buffered saline |
| Preservative Stabilisers | 0.09% Sodium Azide |

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| Approx. Protein Concentrations | IgG concentration 1.0 mg/ml |
| Immunogen | CHO cells transfected with cDNA of the IL-6 receptor. |
| External Database Links | <p>UniProt: P08887 Related reagents</p> <p>Entrez Gene: 3570 IL6R Related reagents</p> |
| RRID | AB_2127915 |
| Fusion Partners | Spleen cells from immunised BALB/c (Iffa Credo) mice were fused with the X63/Ag.8653 mouse myeloma cell line. |
| Specificity | <p>Mouse anti Human CD126 antibody, clone B-R6 recognizes human Interleukin-6 receptor subunit alpha, also known as CD126, IL-6R or Membrane glycoprotein 80. Human CD126 is a 468 amino acid single pass type I transmembrane glycoprotein bearing a single Ig-like C2 type domain, two fibronectin type III domains and a single WSXWS motif which may be involved in receptor activation (Daqil et al. 2012).</p> <p>Mouse anti Human CD126 antibody, clone B-R6 inhibits IL-6 mediated proliferation of XG-1 cells (Lu et al. 1995) and partially blocks binding of IL-6 to its receptor (Fourcin et al. 1994), clone B-R6 recognizes both the soluble and membranous human CD126</p> <p>Removal of Sodium azide is recommended prior to use in functional assays. The use of EQU003 for this purpose.</p> |
| Flow Cytometry | Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul |
| References | <ol style="list-style-type: none"> Durandy, A. <i>et al.</i> (1994) Role of IL-6 in promoting growth of human EBV-induced B-cell tumors in severe combined immunodeficient mice. J Immunol. 152 (11): 5361-7. Lu, Z.Y. <i>et al.</i> (1995) Interleukin-10 is a proliferation factor but not a differentiation factor for human myeloma cells. Blood. 85 (9): 2521-7. Horiuchi, S. <i>et al.</i> (2006) Human T-cell leukemia virus type-I Tax induces expression of interleukin-6 receptor (IL-6R): Shedding of soluble IL-6R and activation of STAT3 signaling. Int J Cancer. 119 (4): 823-30. McKay, B.R. <i>et al.</i> (2009) Association of interleukin-6 signalling with the muscle stem cell response following muscle-lengthening contractions in humans. PLoS One. 4: e6027. |
| 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</p> |

recommend microcentrifugation before use.

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| Guarantee | 12 months from date of despatch |
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| Health And Safety Information | Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA822 10040 |
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| Regulatory | For research purposes only |
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Related Products

Recommended Secondary Antibodies

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| Rabbit Anti Mouse IgG (STAR12...) | RPE |
| Goat Anti Mouse IgG IgA IgM (STAR87...) | HRP |
| Goat Anti Mouse IgG (STAR76...) | RPE |
| Rabbit Anti Mouse IgG (STAR13...) | HRP |
| Goat Anti Mouse IgG (STAR70...) | FITC |
| Goat Anti Mouse IgG (H/L) (STAR117...) | Alk. Phos. , DyLight®488 , DyLight®550 , DyLight®650 , DyLight®680 , DyLight®800 , FITC , HRP |
| Rabbit Anti Mouse IgG (STAR9...) | FITC |
| Goat Anti Mouse IgG (STAR77...) | HRP |
| Goat Anti Mouse IgG (Fc) (STAR120...) | FITC , HRP |

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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| 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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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)
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