

Datasheet: MCA822

**BATCH NUMBER 164116**

<b>Description:</b>	MOUSE ANTI HUMAN CD126/IL-6R
<b>Specificity:</b>	CD126
<b>Other names:</b>	INTERLEUKIN-6 RECEPTOR
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	B-R6
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://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.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative</b>	<0.1% Sodium Azide (NaN <sub>3</sub> )

## Stabilisers

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**Approx. Protein Concentrations** IgG concentration 1.0 mg/ml

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**Immunogen** CHO cells transfected with cDNA of the IL-6 receptor.

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### External Database Links

**UniProt:**

[P08887](#)    [Related reagents](#)

**Entrez Gene:**

[3570](#) IL6R    [Related reagents](#)

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**RRID** AB\_2127915

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**Fusion Partners** Spleen cells from immunised BALB/c (Iffa Credo) mice were fused with the X63/Ag.8653 mouse myeloma cell line.

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### Specificity

**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](#)).

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

Removal of sodium azide is recommended prior to use in functional assays.

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**Flow Cytometry** Use 10ul of the suggested working dilution to label 10<sup>6</sup> cells in 100ul

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### References

1. Durandy, A. *et al.* (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.](#)
2. Lu, Z.Y. *et al.* (1995) Interleukin-10 is a proliferation factor but not a differentiation factor for human myeloma cells. [Blood. 85 \(9\): 2521-7.](#)
3. Horiuchi, S. *et al.* (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.](#)
4. Dráber, P. *et al.* (2007) Preformed STAT3 transducer complexes in human HepG2 cells and rat hepatocytes. [Cell Signal. 19 \(11\): 2400-12.](#)
5. McKay, B.R. *et al.* (2009) Association of interleukin-6 signalling with the muscle stem cell response following muscle-lengthening contractions in humans. [PLoS One. 4: e6027.](#)
6. Djourabchi, A.B. *et al.* (2020) Human spermatozoa of male patients with subfertility express the interleukin-6 receptor. [Andrologia. 52 \(4\): e13511.](#)

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**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.

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

### Recommended Secondary Antibodies

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

### Recommended Negative Controls

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

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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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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