

Datasheet: MCA822

BATCH NUMBER 155513

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.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative	0.09% Sodium Azide

Stabilisers

Approx. Protein Concentrations IgG concentration 1.0 mg/ml

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

External Database Links

UniProt:

[P08887](#) [Related reagents](#)

Entrez Gene:

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

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

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.

Flow Cytometry Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul

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. 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.](#)
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Storage Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

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.

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

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 \(MCA928\)](#)

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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Printed on 18 Jan 2024