

Datasheet: MCA822

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 ion exchange chromatography
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	CHO cells transfected with cDNA of the IL-6 receptor.
External Database	UniProt:

Links

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

Entrez Gene:

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

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	<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>
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Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul
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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.
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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>
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Shelf Life	18 months from date of despatch.
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Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®549 , DyLight®649 , DyLight®680 , DyLight®800 , 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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