

Datasheet: MCA1490

Description:	RAT ANTI MOUSE INTERLEUKIN-6
Specificity:	IL-6
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	MP5-20F3
Isotype:	IgG1
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	▪			
Immunoprecipitation			▪	
Western Blotting			▪	

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	Mouse
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 0.5mg/ml

Immunogen	Recombinant murine IL-6.
External Database Links	<p>UniProt: P08505 Related reagents</p> <p>Entrez Gene: 16193 IL6 Related reagents</p>
Synonyms	IL-6
RRID	AB_567089
Specificity	<p>Rat anti Mouse Interleukin-6 antibody, clone MP5-20F3 recognizes mouse Interleukin 6 (IL-6), also known as B-cell hybridoma growth factor or Interleukin HP-1. IL-6 is a potent lymphoid cell growth factor principally expressed by macrophages and T-cells. IL-6 is a potent inducer of the acute phase response.</p> <p>Animals lacking IL-6 demonstrate a marked reduction in the production of proinflammatory Th17 cells (Ivanov et al. 2006). In humans disruption of the IL-6 gene may lead to the presentation of rheumatoid arthritis systemic juvenile (RASJ), an inflammatory articular disorder manifesting with daily spiking fever, macular rash, lymphadenopathy, hepatosplenomegaly, serositis, myalgia and arthritis.</p> <p>Rat anti Mouse Interleukin-6 antibody, clone MP5-20F3 may be used to neutralize IL-6 bioactivity in a functional assay (Abrams et al. 1992 and Kambayashi et al. 1995).</p>
References	<ol style="list-style-type: none"> Abrams, J.S. <i>et al.</i> (1992) Strategies of anti-cytokine monoclonal antibody development: immunoassay of IL-10 and IL-5 in clinical samples. Immunol Rev. 127: 5-24. Kambayashi, T. <i>et al.</i> (1995) Cyclic nucleotide phosphodiesterase type IV participates in the regulation of IL-10 and in the subsequent inhibition of TNF-alpha and IL-6 release by endotoxin-stimulated macrophages. J Immunol. 155 (10): 4909-16. Vankelecom, H. <i>et al.</i> (1993) Immunocytochemical evidence that S-100-positive cells of the mouse anterior pituitary contain interleukin-6 immunoreactivity. J Histochem Cytochem. 41 (2): 151-6. Skok, J. <i>et al.</i> (1999) Dendritic cell-derived IL-12 promotes B cell induction of Th2 differentiation: a feedback regulation of Th1 development. J Immunol. 163 (8): 4284-91. Ruan, L. <i>et al.</i> (2009) Amyloid deposition and inflammation in APP^{swe}/PS1^{dE9} mouse model of Alzheimer's disease. Curr Alzheimer Res. 6: 531-40. Lu, W. <i>et al.</i> (2019) Deficiency of Adipocyte IKKβ Affects Atherosclerotic Plaque Vulnerability in Obese LDLR Deficient Mice. J Am Heart Assoc. 8 (12): e012009. Lu, W. <i>et al.</i> (2021) Fibroblast-specific IKK-β deficiency ameliorates angiotensin II-induced adverse cardiac remodeling in mice. JCI Insight. 6 (18)Sep 22 [Epub ahead of print].
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.

Guarantee	12 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 Rat IgG (STAR69...)	FITC
Goat Anti Rat IgG (STAR73...)	RPE
Rabbit Anti Rat IgG (STAR16...)	DyLight@800
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	DyLight@650 , DyLight@800
Goat Anti Rat IgG (STAR72...)	HRP
Rabbit Anti Rat IgG (STAR21...)	HRP
Rabbit Anti Rat IgG (STAR17...)	FITC
Goat Anti Rat IgG (STAR131...)	Alk. Phos. , Biotin

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