

Datasheet: MCA1553F

BATCH NUMBER 157735

Description:	RAT ANTI HUMAN INTERLEUKIN-2:FITC
Specificity:	IL-2
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	MQ1-17H12
Isotype:	IgG2a
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)	▪			Neat

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

(1)Membrane permeabilization is required for this application. Bio-Rad recommend the use of Leucoperm™ (Product Code [BUF09](#)) for this purpose.

Target Species

Human

Species Cross Reactivity

Reacts with: Cynomolgus monkey

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified IgG - liquid

Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	FITC	490	525

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 1% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml
External Database Links	<p>UniProt: P60568 Related reagents</p> <p>Entrez Gene: 3558 IL2 Related reagents</p>
RRID	AB_2125584
Specificity	<p>Rat anti Human Interleukin-2 antibody, clone MQ1-17H12 recognizes human interleukin-2 (IL-2), also known as T-cell growth factor or Aldesleukin. IL-2 is a 153 amino acid secreted cytokine produced by T-cells following antigenic or mitogenic stimulation. It plays a crucial role in T-cell proliferation and immune regulation.</p> <p>Rat anti Human Interleukin-2 antibody, clone MQ1-17H12 has been successfully used for the detection and measurement of native and recombinant human IL-2 using flow cytometry and ELISA where it acts as the capture reagent in a very sensitive assay for IL-2 determination in human samples. IL-2 is used extensively for the treatment of patients with metastatic melanoma (Atkins <i>et al.</i> 1999) and renal cancer with reproducible beneficial effects (Rosenberg 2014). Monitoring of IL-2 levels in such patients is required for optimization of treatment regimens (Lotze <i>et al.</i> 1986). Rat anti Human Interleukin-2 antibody, clone MQ1-17H12 is also useful for evaluating levels of IL-2 in patients with autoimmune conditions including lupus erythematosus and rheumatoid arthritis where there may be an impaired ability to produce IL-2 (Talal <i>et al.</i> 1983).</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul.
References	<ol style="list-style-type: none"> 1. Garbe, Y. <i>et al.</i> (2011) Semiallogenic fusions of MSI(+) tumor cells and activated B cells induce MSI-specific T cell responses. BMC Cancer. 11: 410. 2. Moncrieffe, H. <i>et al.</i> (2010) High expression of the ectonucleotidase CD39 on T cells from the inflamed site identifies two distinct populations, one regulatory and one memory T cell population. J Immunol. 185 (1): 134-43.
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>

Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA1553F 10041
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL:FITC \(MCA6005F\)](#)

Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

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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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