

Datasheet: MCA1553PE

Description:	RAT ANTI HUMAN INTERLEUKIN-2:RPE
Specificity:	IL-2
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	MQ1-17H12
Isotype:	IgG2a
Quantity:	100 TESTS/1ml

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 product 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 product for use in their own system using appropriate negative/positive controls.

(1) Membrane permeabilization is required for this application. The use of Leucoperm (Product Code [BUF09](#)) is recommended 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 conjugated to R. Phycoerythrin (RPE) - lyophilized		
Reconstitution	Reconstitute with 1.0ml distilled water		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	RPE 488nm laser	496	578
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture		

supernatant

Buffer Solution	Phosphate buffered saline
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Preservative	0.09% sodium azide (NaN ₃)
Stabilisers	1% bovine serum albumin
	5% sucrose

External Database Links

UniProt:

[P60568](#)

[Related reagents](#)

Entrez Gene:

[3558](#)

IL2

[Related reagents](#)

RRID	AB_322131
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Specificity

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.

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 et al. 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 et al. 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 et al. 1983](#)).

Flow Cytometry	Use 10µl of the suggested working dilution to label 1x10 ⁶ cells in 100µl.
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References

1. Garbe, Y. et al. (2011) Semiallogenic fusions of MSI(+) tumor cells and activated B cells induce MSI-specific T cell responses. [BMC Cancer. 11: 410.](#)
 2. Moncrieffe, H. et al. (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.](#)
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Storage

This product is shipped at ambient temperature.

Prior to reconstitution store at +4°C.

After reconstitution store at +4°C.

DO NOT FREEZE.

This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #20487 available at: https://www.bio-rad-antibodies.com/SDS/MCA1553PE 20487
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL:RPE \(MCA6005PE\)](#)

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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