

Datasheet: MCA1553

Description:	RAT ANTI HUMAN INTERLEUKIN-2
Specificity:	IL-2
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	MQ1-17H12
Isotype:	IgG2a
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 (1)	▪			
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. 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.
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
Carrier Free	Yes
Approx. Protein	IgG concentration 1.0 mg/ml

Concentrations

External Database

Links

UniProt:

[P60568](#) [Related reagents](#)

Entrez Gene:

[3558](#) IL2 [Related reagents](#)

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 10ul of the suggested working dilution to label 1×10^6 cells in 100ul.

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

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.

Shelf Life

18 months from date of despatch.

Health And Safety Information

Material Safety Datasheet documentation #10040 available at: 10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR16...)

[DyLight®800](#)

Goat Anti Rat IgG (STAR73...)

[RPE](#)

Rabbit Anti Rat IgG (STAR21...) [HRP](#)
Rabbit Anti Rat IgG (STAR17...) [FITC](#)
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...) [DyLight®549](#), [DyLight®649](#), [DyLight®800](#)
Goat Anti Rat IgG (STAR131...) [Alk. Phos.](#), [Biotin](#)
Goat Anti Rat IgG (STAR69...) [FITC](#)
Goat Anti Rat IgG (STAR72...) [HRP](#)

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