

## Technical Data Sheet

## Purified NA/LE Rat Anti-Human IL-2

## Product Information

Material Number:	554562
Size:	0.5 mg
Concentration:	1.0 mg/ml
Clone:	MQ1-17H12
Immunogen:	Human IL-2 Recombinant Protein
Isotype:	Rat IgG2a, $\kappa$
Reactivity:	QC Testing: Human
Storage Buffer:	No azide/low endotoxin: Aqueous buffered solution containing no preservative, 0.2 $\mu$ m sterile filtered. Endotoxin level is $\leq 0.01$ EU/ $\mu$ g ( $\leq 0.001$ ng/ $\mu$ g) of protein as determined by the LAL assay.

## Description

The MQ1-17H12 antibody reacts with human interleukin-2 (IL-2). The immunogen used to generate the MQ1-17H12 hybridoma was recombinant human IL-2. Unconjugated or purified forms of this antibody have been reported to be neutralizing for human IL-2 bioactivity.

## Preparation and Storage

Store undiluted at 4°C.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

This preparation contains no preservatives, thus it should be handled under aseptic conditions.

## Application Notes

## Application

ELISA	Routinely Tested
Neutralization	Tested During Development
Intracellular staining (flow cytometry)	Tested During Development

## Neutralization Activity:

Investigators are advised that the neutralization application is not routinely tested for this material. Neutralization activity has been reported to be measurable with a proliferation assay using 100 pg/mL recombinant human IL-2 (Cat. No. 554603) to stimulate CTLL-2 cells at  $2 \times 10^4$  cells/mL as indicator cells (i.e. preincubation of the antibody with recombinant human IL-2 for 60 minutes).

50% Neutralization (ND50) at 0.1 - 1.5  $\mu$ g/mL

$\geq 95\%$  Neutralization at 3 - 15  $\mu$ g/mL

## Suggested Companion Products

Catalog Number	Name	Size	Clone
554603	Recombinant Human IL-2	10 $\mu$ g	(none)
554687	Purified NA/LE Rat IgG2a $\kappa$ Isotype Control	0.5 mg	R35-95

## Product Notices

- Since applications vary, each investigator should titrate the reagent to obtain optimal results.
- This product is manufactured and sold under license from Pestka Biomedical Laboratories, Inc. (d/b/a PBL InterferonSource) and may be used solely as indicated. This product may not be resold or incorporated in any manner into another product for resale. Any use for therapeutics is strictly prohibited. This product is covered by U.S. Patent No. 5,597,901 and Bulgarian Patent No. BG1895.
- Please refer to [www.bdbiosciences.com/pharmingen/protocols](http://www.bdbiosciences.com/pharmingen/protocols) for technical protocols.

## References

Andersson J, Abrams J, Bjork L, et al. Concomitant in vivo production of 19 different cytokines in human tonsils. *Immunology*. 1994; 83(1):16-24. (Immunogen)  
 Fernandez V, Andersson J, Andersson U, Troye-Blomberg M. Cytokine synthesis analyzed at the single-cell level before and after revaccination with tetanus toxoid. *Eur J Immunol*. 1994; 24(8):1808-1815. (Immunogen)  
 Gillis S, Ferm MM, Ou W, Smith KA. T cell growth factor: parameters of production and a quantitative microassay for activity. *J Immunol*. 1977; 120(6):2027-2032. (Biology)  
 Prussin C, Metcalfe DD. Detection of intracytoplasmic cytokine using flow cytometry and directly conjugated anti-cytokine antibodies. *J Immunol Methods*. 1995; 188(1):117-128. (Methodology: Flow cytometry)

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