

Technical Data Sheet

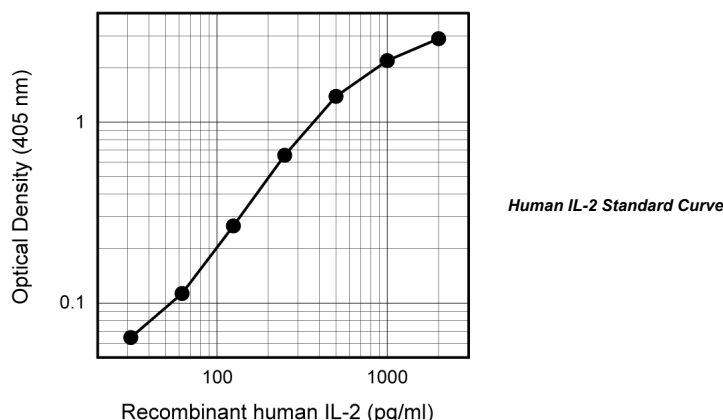
Biotin Mouse Anti-Human IL-2

Product Information

Material Number:	555040
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	B33-2
Immunogen:	Recombinant Human IL-2 protein
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

Description

The B33-2 antibody reacts with human interleukin-2 (IL-2). The immunogen used to generate the B33-2 hybridoma was affinity-purified, recombinant human IL-2 protein.



Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.
The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
The antibody was conjugated with biotin under optimum conditions, and unreacted biotin was removed.

Application Notes

Application

ELISA Detection	Routinely Tested
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Recommended Assay Procedure:

ELISA Detection: Biotinylated B33-2 antibody (Cat. No. 555040) is useful as a detection antibody in sandwich ELISA for measuring human IL-2 protein levels. The biotinylated B33-2 antibody can be paired with purified MQ1-17H12 antibody (Cat. No. 554563) as the capture antibody and with recombinant human IL-2 (Cat. No. 554603) as the standard. Biotinylated B33-2 antibody should be titrated (0.5 - 2.0 $\mu\text{g/mL}$) to determine the optimal concentration for ELISA detection. To obtain linear standard curves, doubling dilutions of human IL-2 ranging from ~2,000 to 15 pg/mL are recommended for inclusion in each ELISA plate. This ELISA pair is recommended primarily for measuring cytokine from experimental cell culture systems. For serum or plasma, the BD OptEIA™ Human IL-2 ELISA Set (Cat. No. 555190) or BD OptEIA™ Human IL-2 ELISA Kit II (Cat. No. 550611) are recommended.

This ELISA pair has been reported to show no cross-reactivity with the following cytokines: mouse IL-1 β , IL-2, IL-3, IL-4, IL-5, IL-6, IL-7, IL-9, IL-10, IL-12p70, IL-15, GM-CSF, IFN- γ , MCP-1, TCA-3, TNF; human IL-1 α , IL-1 β , IL-3, IL-4, IL-5, IL-6, IL-7, IL-8, IL-9, IL-10, IL-11, IL-12 p70, IL-12 p40, IL-13, IL-15, G-CSF, GM-CSF, IFN- γ , lymphotactin, MCP-1, MCP-2 MIP-1 α , MIP-1 β , NT-3, PDGF-AA, sCD23, SCF, TNF, LT- α , VEGF; rat IL-2, IL-4, IL-6, IL-10, GM-CSF, IFN- γ , TNF).

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Suggested Companion Products

Catalog Number	Name	Size	Clone
554563	Purified Rat Anti-Human IL-2	0.1 mg	MQ1-17H12
554603	Recombinant Human IL-2	10 µg	(none)
555190	Human IL-2 ELISA Set	20 plates	(none)
550611	Human IL-2 ELISA Kit II	2 plates	(none)

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. 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.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. Please refer to www.bdbiosciences.com/pharming/en/protocols for technical protocols.

References

Abrams J. Immunoenzymetric assay of mouse and human cytokines using NIP-labeled anti-cytokine antibodies. In: Coligan J, Kruisbeek A, Margulies D, Shevach E, Strober W, ed. *Current Protocols in Immunology*. New York: John Wiley and Sons; 1995:6.20-6.21. (Biology)

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