

Technical Data Sheet

Purified Rat Anti-Human IL-12 p70

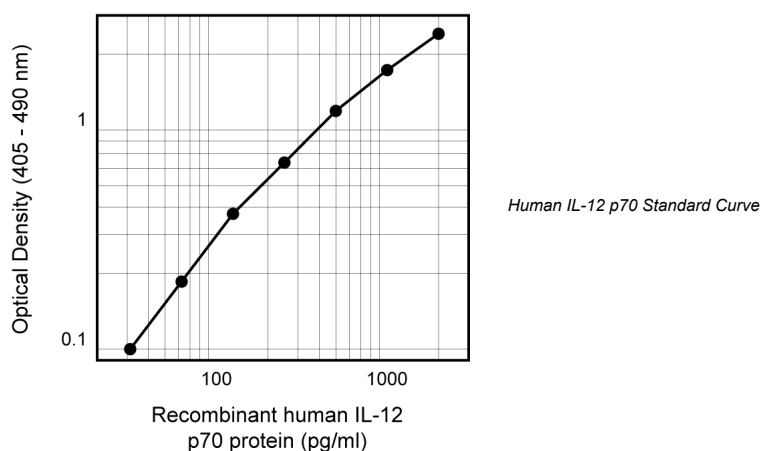
Product Information

Material Number:	555065
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	20C2
Isotype:	Rat IgG1, κ
Reactivity:	QC Testing: Human
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

Description

The 20C2 antibody reacts with the biologically active form of human IL-12 p70 heterodimer, but not with the p40 monomer or homodimer.

This antibody is routinely tested by ELISA Capture. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.



Preparation and Storage

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

Store undiluted at 4°C.

Application Notes

Application

ELISA Capture	Routinely Tested
Intracellular block/flow cytometry	Tested During Development
Western blot	Reported

Recommended Assay Procedure:

ELISA Capture: The purified monoclonal antibody 20C2 (Cat. No. 555065) is useful as a capture antibody in a sandwich ELISA for measuring human IL-12 protein levels. Purified monoclonal antibody 20C2 can be paired with the biotinylated monoclonal antibody C8.6 (Cat. No. 554660) with recombinant human IL-12 p70 (Cat. No. 554613) as the standard. Purified monoclonal antibody 20C2 should be titrated to determine its optimal concentration for ELISA capture (2.0 μ g/ml). To obtain linear standard curves, doubling dilutions of human IL-12 p70 ranging from ~2000 to 15 pg/ml are recommended for inclusion in each ELISA plate. For specific methodology, please visit the protocols section or chapter on ELISA in the Immune Function Handbook, both of which are posted on our web site, www.bdbiosciences.com.

Note 1: This ELISA pair is recommended primarily for measuring cytokines produced by experimental cell culture systems. These ELISA reagents are not recommended for measuring serum samples. The BD OptEIA™ Human IL-12 (p70) ELISA set (Cat. No. 555183) and Human IL-12 (p70) ELISA Kit (Cat. No. 559258) are specially-formulated for serum or plasma cytokine measurement.

Note 2: This ELISA pair shows no cross-reactivity with any of the cytokines or chemokines tested (including human IL-1 α , IL-1 β , IL-2, IL-3,

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IL-4, IL-5, IL-6, IL-7, IL-8, IL-9, IL-10, IL-11, IL-13, IL-15, IL-16, eotaxin, G-CSF, GM-CSF, GRO α , GRO β , GRO γ , IFN- γ , IP-10, lymphotactin, MCP-1, MCP-2, MCP-3, MCP-4, MIP-1 α , MIP-1 β , NAP-2, PF-4, RANTES, TNF, LT- α).

Suggested Companion Products

Catalog Number	Name	Size	Clone
554660	Biotin Mouse Anti-Human IL-12 (p40/p70)	0.5 mg	C8.6
554613	Recombinant Human IL-12 (p70)	5 μ g	(none)
559258	Human IL-12 (p70) ELISA Kit	2 plates	(none)
555183	Human IL-12 (p70) ELISA Set	20 plates	(none)

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmlingen/protocols for technical protocols.
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.

References

Gately MK, Chizzonite R, Presky DH. Measurement of Human and Mouse Interleukin-12. In: Cooligan J, Kruisbeek A, Margulies D, Shevach E, Storb W, ed. *Current Protocols in Immunology*. New York: John Wiley and Sons; 1995:6-16. (Clone-specific)