Technical Data Sheet

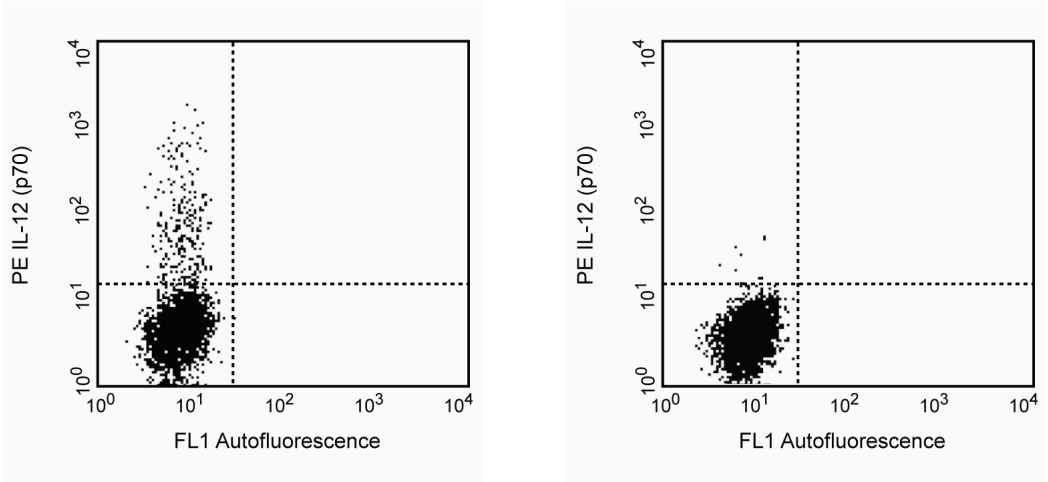
PE Rat Anti-Human IL-12 p70

Product Information

Material Number:	**557020**
Size:	0.1 mg
Concentration:	0.2 mg/ml
Clone:	20C2
Isotype:	Rat IgG1, κ
Reactivity:	QC Testing: Human
Storage Buffer:	Aqueous buffered solution containing ≤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.



Specific control for intracellular staining of human IL-12 p70-producing cells. *Pharmingen's HiCK-3 positive control cells (Cat. No. 555063) were stained using Pharmingen's intracellular staining protocol. The panels show intracellular staining with PE-conjugated anti-human IL-12 p70 (0.06 µg) and the pre-blocking of that staining with purified anti-human IL-12 p70 (5.0 µg, Cat. No. 557018, see right panel).*

Preparation and Storage

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

The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed.

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

Application Notes

Application

Intracellular staining (flow cytometry)	Routinely Tested

Recommended Assay Procedure:

1. Immunofluorescent Staining and Flow Cytometric Analysis: The 20C2 antibody is useful for immunofluorescent staining and flow cytometric analysis of mixed cell populations to identify and enumerate IL-12 p70 producing cells. The PE-conjugated 20C2 antibody should be titrated (> 0.25 µg mAb/million cells) for optimal results in immunofluorescent staining and flow cytometric analysis. For specific methodology, please visit the protocols section or chapter on intracellular staining in the Immune Function Handbook, both of which are posted on our web site, www.bdbiosciences.com. A suitable rat IgG1 isotype control for assessing the level of fluorochrome associate background staining on paraformaldehyde fixed/saponin-permeabilized human cells is PE-R3-34 immunoglobulin (Cat. No. 554685); use at comparable concentrations to the antibody of interest.

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A useful control for demonstrating specificity of staining is to pre-block the fixed/permeabilized cells with unlabeled 20C2 antibody (Cat. No. 557018) prior to staining. The intracellular staining technique and use of blocking controls are described in detail by C. Prussin and D. Metcalfe.

Suggested Companion Products

Catalog Number	Name	Size	Clone
555063	HiCK-3 Human Cytokine Positive Control Cells	1.0 ml	(none)
554715	BD Cytofix/Cytoperm Plus Kit (with BD GolgiStop)	250 tests	(none)
554685	PE Rat IgG1, κ Isotype Control	0.1 mg	R3-34

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/colors.
4. 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, Storber W, ed. *Current Protocols in Immunology.* New York: John Wiley and Sons; 1995:6-16. (Clone-specific)

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)