

Technical Data Sheet

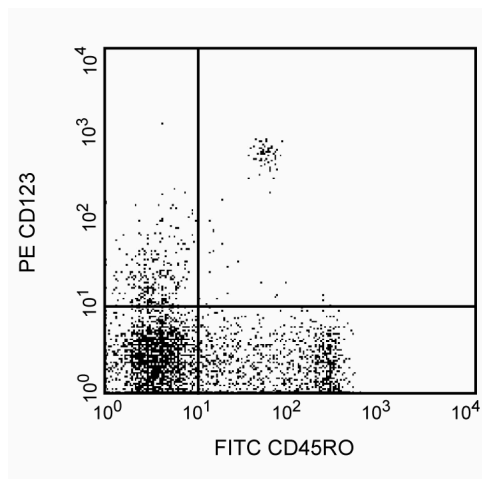
PE Mouse Anti-Human CD123

Product Information

Material Number:	561050
Alternate Name:	IL-3 Receptor α chain
Size:	25 μ g
Concentration:	0.2 mg/ml
Clone:	9F5
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human
Workshop:	VI C-67
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

Description

Reacts with the 70 kDa IL-3 receptor α chain (IL-3R α), which associates with the 120-140 kDa β subunit. The β chain is shared with the receptors for interleukins IL-5 and GM-CSF. IL-3R α is expressed on myeloid precursors, basophils, mast cells, macrophages, and megakaryocytes. Reports indicate that IL-3R α is also expressed on lymphocytes. IL-3R plays an important role in hematopoietic progenitor cell growth and differentiation. This antibody does not block binding of IL-3 to the IL-3 receptor.



Profile of peripheral blood lymphocytes analyzed on a FACSscan (BDIS, San Jose, CA)

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

Flow cytometry	Routinely Tested
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Suggested Companion Products

Catalog Number	Name	Size	Clone
555749	PE Mouse IgG1, κ Isotype Control	100 tests	MOPC-21

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. 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.

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References

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Macardle PJ, Chen Z, Shih CY, et al. Characterization of human leucocytes bearing the IL-3 receptor. *Cell Immunol*. 1996; 168(1):59-68. (Biology)

Sun Q, Woodcock JM, Rapoport A, et al. Monoclonal antibody 7G3 recognizes the N-terminal domain of the human interleukin-3 (IL-3) receptor alpha-chain and functions as a specific IL-3 receptor antagonist. *Blood*. 1996; 87(1):83-92. (Biology)