

## Technical Data Sheet

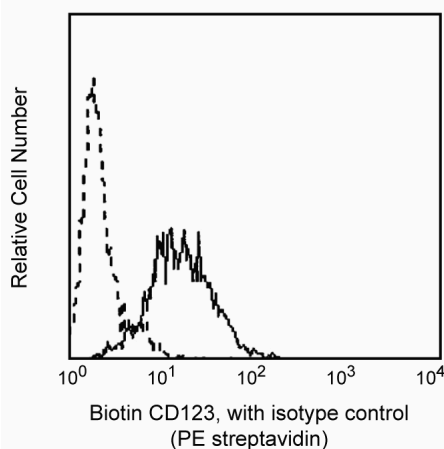
## Biotin Mouse Anti-Human CD123

## Product Information

Material Number:	555643
Alternate Name:	IL-3 Receptor $\alpha$ chain
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	9F5
Isotype:	Mouse IgG1, $\kappa$
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  $\alpha$  chain (IL-3R $\alpha$ ), which associates with the 120-140 kDa  $\beta$  subunit. The  $\beta$  chain is shared with the receptors for interleukins IL-5 and GM-CSF. IL-3R $\alpha$  is expressed on myeloid precursors, basophils, mast cells, macrophages, and megakaryocytes. Reports indicate that IL-3R $\alpha$  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 TF-1 (erythroid leukemia) cells 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 biotin under optimum conditions, and unreacted biotin was removed. Store undiluted at 4° C and protected from prolonged exposure to light. Do not freeze.

## Application Notes

## Application

Flow cytometry	Routinely Tested
Fluorescence microscopy	Tested During Development

## Suggested Companion Products

Catalog Number	Name	Size	Clone
555747	Biotin Mouse IgG1 $\kappa$ Isotype Control	100 tests	MOPC-21
554061	PE Streptavidin	0.5 mg	(none)

## BD Biosciences

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## 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](http://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.

## References

- Kishimoto T, von dem Borne AEG, Goyert SM, et al., ed. *Leucocyte Typing VI: White Cell Differentiation Antigens*. London: Garland Publishing; 1997. (Clone-specific)
- Guesdon JL, Ternynck T, Avrameas S. The use of avidin-biotin interaction in immunoenzymatic techniques. *J Histochem Cytochem*. 1979; 27(8):1131-1139. (Biology)
- Macardie 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)