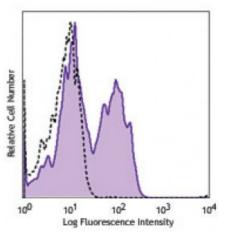
Product Data Sheet

PE anti-human CD124 (IL-4Rα)

Catalog # / Size:	2375020 / 100 tests 2375015 / 25 tests
Clone:	G077F6
Isotype:	Mouse lgG2a, к
Immunogen:	Recombinant human IL-4R α Fc chimera
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).
Concentration:	Lot-specific



Human peripheral blood lymphocytes were stained with CD19 APC and CD124 (clone G077F6) PE (filled histogram) or mouse lgG2a, κ isotype control PE (open histogram). The data was analyzed by gating on CD19positive cells.

Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Description: CD124, also known as the α subunit of IL-4R, is a 140 kD transmembrane glycoprotein. It associates with either the common γ-chain (CD132) to form the type I IL-4R complex, which specifically binds IL-4, or with IL-13Ra1 to form the type II IL-4R heterodimeric complex, which binds and transduces signals from either IL-4 or IL-13. A truncated form of IL-4Rα exists in the soluble form in biological fluids. CD124 is expressed on human B and T cells as well as a variety of other hematopoietic and non-hematopoietic cells and cell lines. In B cells, CD124 can bind with IL-4 and IL-13 to regulate IgE antibody production. In T cells, the type I IL-4R (IL-4R/gC) is mostly responsible for Th2 cell expansion by mediating IL-4-dependent activation of the transcription factors in hematopoietic cells. The type II IL-4R (IL-4R/IL-13Ra1) is the main route for non-hematopoietic cell responses to IL-4 or IL-13.
Antigen 1. Kashiwada M. *et al.* 2001. *I. Immunol.* 167:6382.

Antigen	1. Rushiwudu 14, ct <i>ul.</i> 2001. <i>J. minidiol.</i> 107.050
References:	2. Gilmour J, <i>et al.</i> 2008. <i>Immunology</i> 124:437.
	3. Hage T, <i>et al.</i> 1999. <i>Cell</i> 97:271.

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