SONY

Product Data Sheet

APC anti-human CD124 (IL-4Rα)

Catalog # / Size: 2375030 / 100 tests
2375025 / 25 tests

Clone: G077F6

Isotype: Mouse IgG2a, κ

Immunogen: Recombinant human IL-4Rα Fc chimera

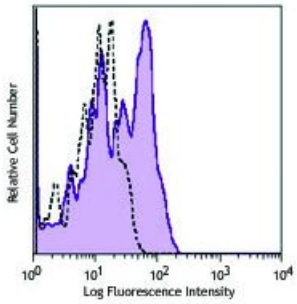
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with APC under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).

Workshop Number: V CD21.4, VI CD21.5

Concentration: Lot-specific

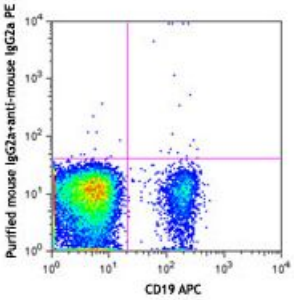


Human peripheral blood lymphocytes were stained with CD19 FITC and CD124 (clone G077F6) APC (filled histogram) or mouse IgG2a, κisotype control APC (dashed histogram). The data was analyzed by gating on CD19-positive cells.

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 µl per million cells or 5 µl per 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.



Description: CD124, also known as the alpha 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 References:

1. Kashiwada M, *et al.* 2001. *J. Immunol.* 167:6382.
2. Gilmour J, *et al.* 2008. *Immunology* 124:437.
3. Hage T, *et al.* 1999. *Cell* 97:271.

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