SONY

Product Data Sheet

Purified anti-human CD124 (IL-4Rα)

Catalog # / Size: 2375005 / 25 µg
2375010 / 100 µg

Clone: G077F6

Isotype: Mouse IgG2a, κ

Immunogen: Recombinant human IL-4Rα Fc chimera

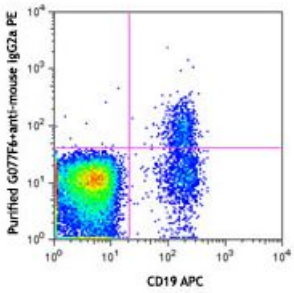
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

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

Concentration: 0.5

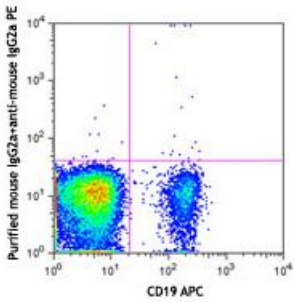


Human peripheral blood lymphocytes were stained with CD19 APC and purified CD124 (clone G077F6) (top) or mouse IgG2a, κ isotype control (bottom), followed by anti-mouse IgG2a PE.

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 ≤1.0 µg per million cells in 100 µl volume. 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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