10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

PE Anti-Human CD127 (IL-7Ra) (R34-34) Antibody

Catalog # ATB10199

Specification

PE Anti-Human CD127 (IL-7Ra) (R34-34) Antibody - Product Information

Application	**FC**
Isotype	**Mouse IgG1, kappa**
Concentration	**5 uL (0.5 ug)/test**
Reactivity	**Human**
Formulation	**10 mM NaH2PO4, 150 mM NaCl, 0.09% NaN3, 0.1% gelatin, pH7.2**
Host	**Mouse**

PE Anti-Human CD127 (IL-7Ra) (R34-34) Antibody - Additional Information

Gene ID	**3575**
Gene Name	**IL7R**

Alternative Name(s)
Interleukin-7 Receptor alpha, IL-7Ra

Format
PE

Preparation
This monoclonal antibody was purified from tissue culture supernatant via affinity chromatography. The purified antibody was conjugated under optimal conditions, with unreacted dye removed from the preparation. It is recommended to store the product undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.

Application Notes
This antibody preparation has been pre-titrated and quality-tested for flow cytometry using an appropriate cell type. The antibody has been diluted for use at 5 uL per test, defined as the amount of antibody that will stain a cell sample in a final volume of approximately 100 uL. The number of cells within a sample should be determined empirically, but typically ranges between 1x10e5 to 1x10e8 cells.

Storage Conditions
2-8°C protected from light

PE Anti-Human CD127 (IL-7Ra) (R34-34) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence

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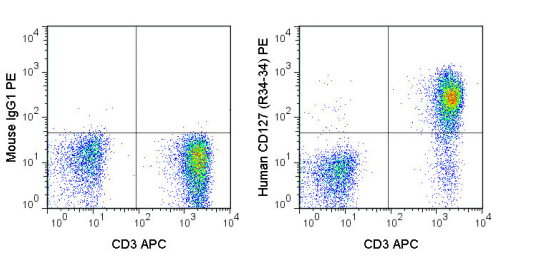
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PE Anti-Human CD127 (IL-7Ra) (R34-34) Antibody - Images



Human peripheral blood lymphocytes were stained with APC Anti-Human CD3 (20-0038) and 5 uL (0.5 ug) PE Anti-Human CD127 (ATB10199) (right panel) or 0.5 ug PE Mouse IgG1 isotype control (left panel).

PE Anti-Human CD127 (IL-7Ra) (R34-34) Antibody - Background

The R34-34 antibody is specific for human CD127, a cell surface protein also known as the Interleukin-7 Receptor alpha chain, or IL-7R alpha. CD127 is typically expressed at the cell surface as a heterodimer with the common gamma chain (CD132). This complex acts as the functional receptor for IL-7, a cytokine important in T and B cell development, and in mature T cell homeostasis. A second cytokine known as Thymic Stromal Lymphopoietin (TSLP) also binds to a receptor complex of CD127 and the TSLPR chain to trigger activation of dendritic cells, and is involved in B cell development, allergy and autoimmunity. The R34-34 antibody may be used as a phenotypic marker for CD127 on immature B cells, on subsets of thymocytes which are double negative (CD4-CD8-) or single positive (CD4+ or CD8+), and at low levels on mature, peripheral T cells. CD127 is a key marker, when used in combination with CD4 and CD25, to distinguish Treg and effector/memory Treg populations known as T(REM), whereas certain populations of Foxp3+ /CD25+ T cells lacking CD127 have been associated with impaired suppressive function (Bikker et al. 2012. Rheumatology, 51: 996-1005)