

CD127 Monoclonal Antibody (eBioRDR5), Alexa Fluor 561, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Alexa Fluor 561, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBioRDR5
Conjugate	Alexa Fluor® 561
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	-

Product Specific Information

Description: The eBioRDR5 monoclonal antibody reacts with human CD127 (Interleukin-7 Receptor alpha). CD127 complexes with CD132, also known as the common gamma chain (gamma c), to form the multi-functional IL-7 receptor (IL-7R). CD127 is a type I glycoprotein with a molecular weight of 75-80 kDa and is expressed by immature B cells through the early pre-B stage, by thymocytes during several stages of their development, and on most mature T cells, with transient down-regulation upon activation. Binding of IL-7 results in signal transduction which occurs through several tyrosine kinase pathways including the Jak /STAT pathway. IL-7 is indispensable for the development of lymphocytes, and the control of homeostatic proliferation of T-cells in the periphery. In addition, IL-7R signaling is known to be involved in the regulation of T cell receptor (TCR) locus rearrangement in gamma delta T cells.

Interestingly, it has been demonstrated that CD127 expression is down-regulated on CD4+CD25+ regulatory T cells (Tregs). While the co-expression of CD4 and CD25 has become widely used as an indicator of Tregs, this method of identification may also include cells without suppressive activity. It has clearly been shown that CD4+CD25+ cells that have down-regulated the expression of CD127 are significantly more highly-enriched for the regulatory T population, as defined by expression of the Treg-specific transcription factor Foxp3 and the suppressive activity of these cells, in vitro.

Binding of the eBioRDR5 monoclonal antibody to PBMCs is blocked by pre-incubation of the cells with recombinant human IL-7 (cat. 14-8079).

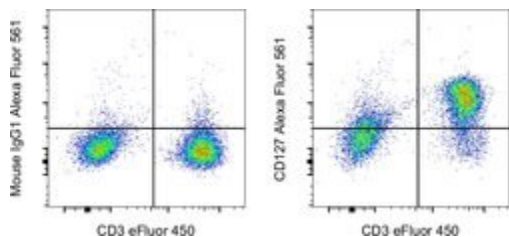
Applications Reported: This eBioRDR5 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This eBioRDR5 antibody has been pre-diluted and tested by flow cytometric analysis of normal human peripheral blood cells. This may be used at 5 μ L (0.25 μ g) per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test.

Alexa Fluor 561 emits at 575 nm and is intended for use on spectral cytometers where it may be multiplexed with both PE and PE-eFluor 610.

Excitation: 558 nm; Emission: 575 nm; Laser: Yellow-Green Laser

Product Images For CD127 Monoclonal Antibody (eBioRDR5), Alexa Fluor 561, eBioscience™



CD127 Antibody (505-1278-42) in Flow

Normal human peripheral blood cells were stained with CD3 Monoclonal Antibody, eFluor 450 (Product # 48-0038-42) and Mouse IgG1 kappa Isotype Control, Alexa Fluor 561 (Product # 505-4714-81) (left) or CD127 Monoclonal Antibody, Alexa Fluor 561 (right). Cells in the lymphocyte gate were used for analysis. This data was collected on a 5-laser Cytek Aurora full spectral cytometer.

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