BF488 Mouse Anti-Human CD127

Purified BF488-conjugated Recombinant Mouse Monoclonal Antibody

Catalog # F101206

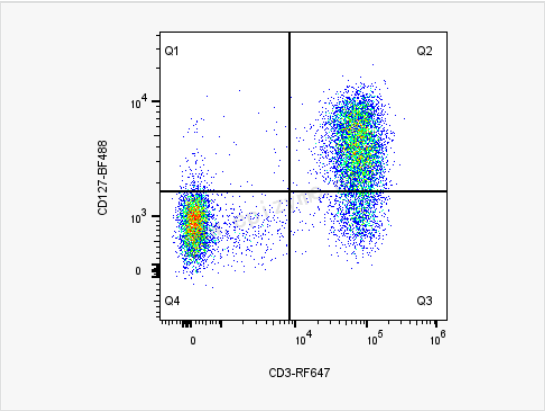
Product Information

Application	FC
Recommended Usage	5 μL per million cells in 100 μL staining volume or 5 μL per 100 μL of whole blood.
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone No.	68C65P27
Isotype	IgG1, κ
Label	BF488 (Ex/Em: 494/517 nm)
Immunogen	Recombinant protein of human CD127
Format	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA.
Storage	Shipped on wet ice. Store undiluted between 2°C and 8°C and protected from prolonged exposure to light. Do not freeze.
Precautions	BF488 Mouse Anti-Human CD127 [68C65P27] is FOR research use only AND NOT FOR use in diagnostic OR therapeutic procedures.

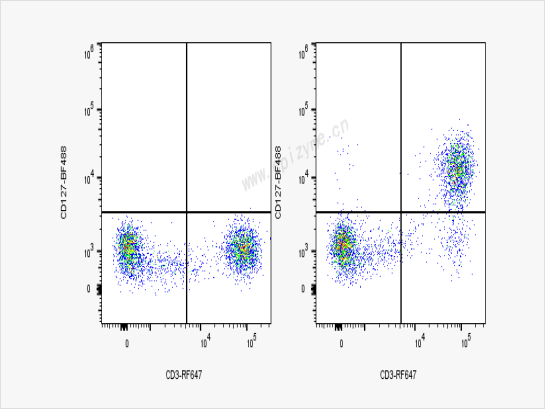
Protein Information

Synonyms	CD 127, CD127, CD127 antigen, CDw127, IL 7R alpha, IL 7R, IL-7 receptor subunit alpha, IL-7R subunit alpha, IL-7R-alpha, IL-7RA, IL7R, IL7RA, IL7RA_HUMAN, IL7Ralpha, ILRA, Interleukin 7 receptor alpha chain, Interleukin 7 receptor, Interleukin 7 receptor isoform H5 6, Interleukin-7 receptor subunit alpha.
Uniprot ID	P16871
Gene ID	3575
Background	CD127 is a 60-90 kD type I transmembrane glycoprotein also known as IL-7 receptor α chain or IL-7Rα. It forms a heterodimer with the common γ chain (γc or CD132) which is shared with the receptors for IL-2, IL-4, IL-9, IL-13, IL-15, and IL-21. CD127 is expressed on immature B cells through early pre-B stage cells, thymocytes (except CD4/CD8 double positive thymocytes), peripheral T cells, and bone marrow stromal cells. CD127 has been reported to be a useful marker for identifying memory and effector T cells. Studies have shown that CD127 expression is down-modulated on Treg cells. It can be used as a marker for differentiation of Treg and conventional T cells. The ligation of IL-7 with its receptor is important for stimulation of mature and immature T cells as well as immature B cell proliferation and development.
Cellular Location	Secreted and Cell membrane.

Validation Images



Typical results from human peripheral blood lymphocytes stained with BF488 Mouse Anti-Human CD127 (F101206) and RF647 Mouse Anti-Human CD3 (F100116).



Typical flow-cytometry plots of human peripheral-blood leukocytes stained with anti-CD3-RF647 (F100116) and anti-CD127-BF488 (F101206) (right) or with anti-CD3-RF647 (F100116) alone as a control (left).