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CD127 Antibody [R34-34] (APC)

CATALOG NUMBER: 76-925

Specifications

SPECIES REACTIVITY:	Human
TESTED APPLICATIONS:	FACS
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
SPECIFICITY:	The R34-34 monoclonal antibody specifically reacts with the human interleukin-7 receptor alpha chain (IL-7 Ra, also known as CD127), which interacts with the gamma chain (CD132) and forms the heterodimer known as IL-7 receptor complex.
HOST SPECIES:	Mouse

Properties

PURIFICATION:	The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.
PHYSICAL STATE:	liquid
BUFFER:	Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, ph7.2.
CONCENTRATION:	5 uL (0.5 ug) / test
STORAGE CONDITIONS:	The product should be stored undiluted at 4˚C and should be protected from prolonged exposure to light. Do not freeze.
CLONALITY:	Monoclonal
ISOTYPE:	Mouse IgG1, kappa
CONJUGATE:	APC

Additional Info

ALTERNATE NAMES:	ILRA, CD127, IL7RA, CDW127, IL-7R-alpha, IL7R
OFFICIAL SYMBOL:	IL7R
GENE ID:	3575

Background

BACKGROUND:	The R34-34 monoclonal antibody specifically reacts with the human interleukin-7 receptor alpha chain (IL-7 Ra, also known as CD127), which interacts with the gamma chain (CD132) and forms the heterodimer known as IL-7 receptor complex. The IL-7 receptor plays a very important role in signal transduction, in the development of lymphocytes, and in the control of T lymphocytes peripheral proliferation. CD 127 is a 60-90 kDa glycoprotein expressed on the surface of thymocytes, mature T lymphocytes, B and T lymphocytes progenitors, some myeloid cells, and some lymphoid cells. Recent studies have shown that in vitro down-regulation of CD127 expression in CD4-positive/CD25-positive regulatory T cells increases the enrichment of regulatory T cells of transcription factor Foxp3 and suppressive activity.
REFERENCES:	1) Corcoran, A. E., Smart, F. M., Cowling, R. J., Crompton, T., Owen, M. J., Venkitaraman, A. R. (1996). The interleukin-7 receptor alpha chain transmits distinct signals for proliferation and differentiation during B lymphopoiesis.The EMBO journal,15(8), 1924.
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cell-helping effector T cells in a B cell-rich lymphoid tissue.The Journal of Immunology,179(11), 7448-7456.

3) Goodwin, R. G., Friend, D., Ziegler, S. F., Jerzy, R., Falk, B. A., Gimpel, S., ... Park, L. S. (1990). Cloning of the human and murine interleukin-7 receptors: demonstration of a soluble form and homology to a new receptor superfamily.Cell,60(6), 941-951.

December 13, 2016