

# Anti-Mouse CD127 Antibody, Clone A7R34, APC

Rat monoclonal antibody against mouse CD127, APC-conjugated

Catalog #100-1629

100 µg

0.2 mg/mL

## Product Description

This monoclonal antibody reacts with mouse cluster of differentiation 127 (CD127), a 60 - 90 kDa type I transmembrane glycoprotein involved in the regulation of lymphopoiesis. CD127 is expressed on thymocytes, B cell precursors, T cells, and myeloid cells at the cell surface as a heterodimer with the common gamma chain (also known as CD132). This complex acts as a receptor for interleukin-7 (IL-7), which is an important cytokine in T and B cell development as well as in mature T cell homeostasis. Thymic stromal lymphopoietin (TSLP), a second cytokine, also binds to the receptor complex of CD127 and is involved in trigger activation of dendritic cells, allergy, and autoimmunity. CD127 has been reported to be a useful marker for identifying memory and effector T cells. The A7R34 antibody clone has been shown to block IL-7Rα signaling when administered in vivo.

Target Antigen:	CD127
Alternative Names:	IL-7Rα, Interleukin-7 receptor alpha
Gene ID:	16172
Species Reactivity:	Mouse
Host Species:	Rat
Clonality:	Monoclonal
Clone:	A7R34
Isotype:	IgG2a, kappa
Immunogen:	Mouse IL-7Rα-IgG1 fusion protein
Conjugate:	APC (Allophycocyanin)

## Applications

Verified Applications: FC

Reported Applications: FC

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FACS: Fluorescence-activated cell sorting; FC: Flow cytometry; FCXM: Flow cytometric crossmatch assay; FISH: Fluorescence in situ hybridization; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IHC-F: Immunohistochemistry (frozen-tissue); IHC-P: Immunohistochemistry (paraffin-embedded); IP: Immunoprecipitation; NMR: Nuclear magnetic resonance spectroscopy; RIA: Radioimmunoassay; WB: Western blotting

## Properties

**Product Formulation:** Phosphate-buffered saline, pH 7.2, containing 0.09% sodium azide and 0.1% gelatin

**Purification:** The antibody was purified by affinity chromatography and conjugated with APC under optimal conditions. The solution is free of unconjugated APC.

**Stability and Storage:** Product stable at 2 - 8°C when stored undiluted. Do not freeze. Protect product from prolonged exposure to light. Stable until expiry date (EXP) on label.

**Directions for Use:** For flow cytometry, the suggested use of this antibody is  $\leq 1 \mu\text{g}$  per  $1 \times 10^6$  cells in 100  $\mu\text{L}$ . It is recommended that the antibody be titrated for optimal performance for each application.

## Related Products

For a complete list of antibodies, including other conjugates, sizes, and clones, as well as related products available from STEMCELL Technologies, visit [www.stemcell.com/antibodies](http://www.stemcell.com/antibodies), or contact us at [techsupport@stemcell.com](mailto:techsupport@stemcell.com).

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