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# anti-IL7R antibody (FITC)





#### Overview

Quantity:	100 μg
Target:	IL7R
Reactivity:	Mouse
Host:	Rat
Clonality:	Monoclonal
Conjugate:	This IL7R antibody is conjugated to FITC
Application:	Flow Cytometry (FACS)

#### **Product Details**

Clone:

A7R34

Isotype:	IgG2a kappa
Purification:	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.

### Target Details

Target:	IL7R
Alternative Name:	CD127 (IL-7Ra) (IL7R Products)
Background:	The A7R34 antibody is specific for mouse CD127, a 60-90 kDa 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 A7R34 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).

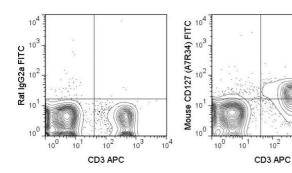
Gene ID:	16172
UniProt:	P16872
Pathways:	JAK-STAT Signaling, Regulation of Leukocyte Mediated Immunity, Production of Molecular  Mediator of Immune Response, Regulation of Cell Size

## **Application Details**

Application Notes:	This antibody preparation has been quality-tested for flow cytometry using mouse spleen cells,
	or an appropriate cell type (where indi- cated). The amount of antibody required for optimal
	staining of a cell sample should be determined empirically in your system.
Comment:	0.5 mg/mL
Restrictions:	For Research Use only

### Handling

Buffer:	10 mM NaH2PO4, 150 mM NaCl, 0.09 % Sodium azide, 0.1 % gelatin, pH 7.2
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	2-8°C protected from light
Expiry Date:	12 months



### Flow Cytometry

**Image 1.** C57BI/6 splenocytes were stained with APC Anti-Mouse CD3 (ABIN6961407) and 1  $\mu$ g FITC Anti-Mouse CD127 (ABIN6961407) (right panel) or 1  $\mu$ g FITC Rat IgG2a isotype control (left panel).