

## Purified anti-mouse CD127 (IL-7R $\alpha$ )

**Catalog # / Size:** 135001 / 50  $\mu$ g  
135002 / 500  $\mu$ g

**Clone:** A7R34

**Isotype:** Rat IgG2a,  $\kappa$

**Immunogen:** IL-7Ra-IgG1 fusion protein

**Reactivity:** Mouse

**Preparation:** The antibody was purified by affinity chromatography.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

**Concentration:** 0.5 mg/ml

**Storage:** The antibody solution should be stored undiluted at 4°C.

## Applications:

**Applications:** FC - *Quality tested*  
IP, WB, IHC, IF - *Reported in the literature*

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is  $\leq 1.0$   $\mu$ g per million cells in 100  $\mu$ l volume. It is recommended that the reagent be titrated for optimal performance for each application.

**Application Notes:** In process development has shown A7R34 is able to block clone SB/199 binding to IL-7R.

**Application References:**

1. Sudo T, *et al.* 1993. *P. Natl. Acad. Sci. USA* 90:9125.
2. Hashi H, *et al.* 2001. *J. Immunol.* 166:3702.
3. Taylor R, *et al.* 2007. *J. Immunol.* 178:5659.
4. Mazzon C, *et al.* 2011. *Blood.* 118:2733. PubMed
5. Jin J, *et al.* 2011. *J. Immunol.* doi:10.4049/jimmunol.1001238. PubMed

**Description:** CD127 is a 60-90 kD type I transmembrane glycoprotein also known as IL-7 receptor  $\alpha$  chain or IL-7R $\alpha$ . It forms a heterodimer with the common  $\gamma$  chain ( $\gamma$  c 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, thymocytes (except CD4/CD8 double positive thymocytes), peripheral T cells, and bone marrow stromal cells. CD127 has been reported to be an useful marker for identifying memory and effector 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 cells proliferation and development.

**Antigen References:**

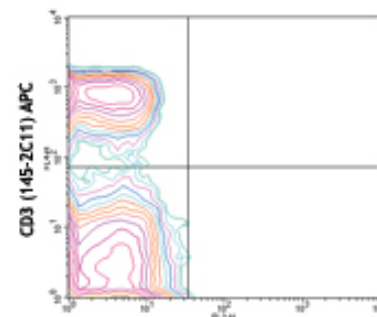
1. Sudo T, *et al.* 1993. *P. Natl. Acad. Sci. USA* 90:9125.
2. Okuno Y, *et al.* 2001. *P. Natl. Acad. Sci. USA* 99:6246.
3. Pillai M, *et al.* 2004. *Leukemia Lymphoma* 45:2403.

### Related Products:

**Product**  
Purified Rat IgG2a,  $\kappa$  Isotype Ctrl  
Cell Staining Buffer  
RBC Lysis Buffer (10X)

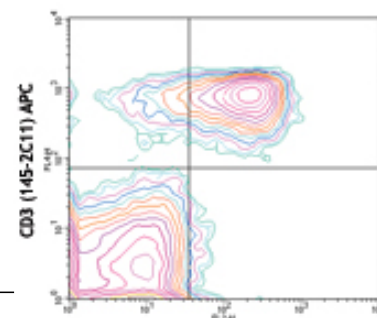
**Clone**  
RTK2758

**Application**  
FC, ICC, IF, IHC, IP, WB  
FC, ICC, ICFC  
FC, ICFC



rat IgG2a (RTK2758) PE isotype control

C57BL/6 mouse splenocytes stained with rat IgG2a (RTK2758) PE isotype control and CD3 (145-2C11) APC



A7R34 PE

C57BL/6 mouse splenocytes stained with A7R34 PE and CD3 (145-2C11) APC



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