

APC anti-mouse CD129 (IL-9R)

Catalog # / Size: 1394030 / 100 µg
1394025 / 25 µg

Clone: S18011D

Isotype: Rat IgG1, κ

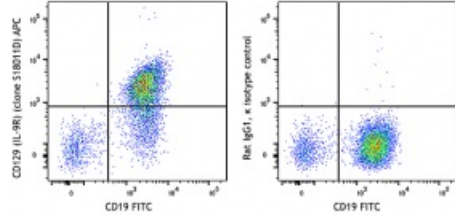
Immunogen: Mouse IL-9R transfectants

Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography and conjugated with APC under optimal conditions.

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

Concentration: 0.2 mg/mL



C57BL/6 mouse splenocytes were cultured with anti-mouse CD40 antibody for 4 days. Cells were stained with CD19 FITC and CD129 (IL-9R) (clone S18011D) APC (left) or PE rat IgG1, κ isotype (right).

Applications:

Applications: Flow Cytometry

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

Application Notes: Additional reported applications (for the relevant formats) include: blocking of ligand binding.

- Application References:**
1. Akbari O, *et al.* 2002. *Nat. Med.* 8:1024.
 2. Harada H, *et al.* 2003. *J. Clin. Invest.* 112:234.
 3. McAdam AJ, *et al.* 2000. *J. Immunol.* 165:5035. (FC Block)
 4. Tan SL, *et al.* 2006. *J. Immunol.* 176:2872. [PubMed](#)

Description: CD129 is the ligand binding subunit of IL-9 receptor (IL-9R or IL-9Rα). It is a type I transmembrane glycoprotein belonging to the hematopoietin receptor superfamily. The signal transducing subunit is common gamma chain (γc, CD132), which is shared with receptors for IL-2, IL-4, IL-7, and IL-21. The mouse IL-9R has 468aa and is about 52.2 kD. Besides modulating immune response, signals through IL-9 and IL-9R are also involved in allergy and inflammatory disorders.

- Antigen References:**
1. Druetz C, *et al.* 1990. *J Immunol.* 145:2494-9.
 2. Renauld JC, *et al.* 1992. *Proc Natl Acad Sci USA.* 89:5690.
 3. Takatsuka S, *et al.* 2018. *Nat Immunol.* 19:1025-34.