

Purified anti-mouse CD218a (IL-18R α)

Catalog # / Size: 1389510 / 500 μ g

Clone: A17071D

Isotype: Rat IgG2b, κ

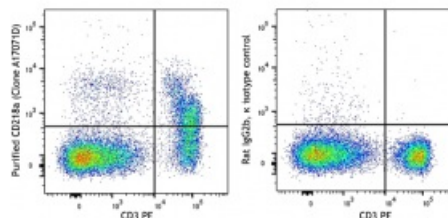
Immunogen: Recombinant mouse CD218a

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



C57BL/6 splenocytes were stained with CD3 PE and purified CD218a (IL-18R α) (clone A17071D, left) or purified rat IgG2b, κ (right), followed by anti-rat IgG Alexa Fluor[®] 647.

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 ≤ 0.25 μ g per million cells in 100 μ l volume. It is recommended that the reagent be titrated for optimal performance for each application.

Description: The IL-18 receptor (IL-18R) complex is composed of two known chains, IL-18 receptor α (IL-18R α) and IL-18 receptor β (IL-18R β). IL-18R α (IL-1R5) is an IL-1 receptor super family member. It was originally described as IL-1 receptor-related protein (IL-1Rrp) because of its homology with the IL-1/Toll receptor family. IL-18R α is the extracellular binding domain of the IL-18 receptor complex. It is expressed on the majority of peripheral CD4⁺ T cells, Th1 cells, and reciprocally repressed during Th2 development. The expression of IL-18R α is induced by an IL-12/Stat4 pathway and inhibited by IL-4/Stat6 pathway. Binding of IL-18R α together with IL-18 β to proinflammatory cytokine IL-18 plays an important role in innate and autoimmune responses.

- Antigen References:**
1. Parnet P, et al. 1996. *J. Biol. Chem.* 271:3967.
 2. Thomassen E, et al. 1998. *J. Interferon Cytokine Res.* 18:1077-88.
 3. Debets R, et al. 2000. *J. Immunol.* 165:4950-6.
 4. Smeltz RB, et al. 2001. *J. Exp. Med.* 194:143-53.