SONY

Product Data Sheet

PE/Cyanine7 anti-mouse CD94

Catalog # / Size: 1127545 / 50 µg
1127550 / 200 µg

Clone: 18d3

Isotype: Rat IgG2a, κ

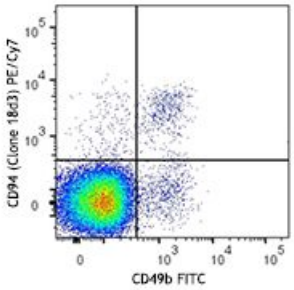
Immunogen: CHO cells expressing the C57BL/6 alleles of CD94 and NKG2A

Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography and conjugated with PE/Cy7 under optimal conditions.

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

Concentration: 0.2

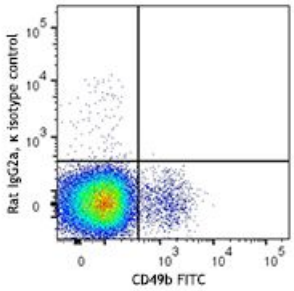


C57BL/6 mouse splenocytes were stained with CD49b (pan-NK cells) FITC and CD94 (clone 18d3) PE/Cy7 (top), or rat IgG2a, κPE/Cy7 isotype control (bottom).

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 ≤0.06 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.



Application References:

1. Vance RE, *et al.* 1999. *J. Exp. Med.* 190:1801.
2. Tang X, *et al.* 2006. *J. Immunol.* 177:7645. PubMed

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Description: CD94 is a 43/39 kD C-type lectin, also known as Kp43. It is present on all NK cells, NKT cells, and a subset of CD8-positive T lymphocytes in most mouse strains. CD94 is a type-II transmembrane protein with an extracellular lectin-like domain and a short cytoplasmic tail. CD94 is expressed as a disulphide-linked heterodimer with a NKG2 subunit believed to mediate signal transduction. When associated with NKG2A, the complex triggers inhibition; when associated with NKG2C, the complex triggers stimulation. The receptor complex of CD94 and NKG2 receptors bind to the ligand, Qa-1, and are thought to play a role in maintaining self-tolerance in developing NK cells.

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Antigen References:

1. Barclay A, *et al.* 1997. The Leukocyte Antigen FactsBook Academic Press.
2. Lopez-Botet M, *et al.* 1997. *Immunol. Rev.* 155:165.
3. Moretta A, *et al.* 1997. *Immunol. Rev.* 155:105.
4. Phillips JH, *et al.* 1996. *Immunity* 5:163.

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