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Product Information

Contents: Phycoerythrin (PE) anti-mouse CD94
Catalog Number: 12-0941
Sizes: 10 ug, 50 ug, 100 ug, 200 ug
Formulation: Phosphate buffer pH 7.2,
150 mM NaCl, 0.09% NaN_3
Storage Conditions: Store at 4°C.
DO NOT FREEZE.
LIGHT-SENSITIVE MATERIAL.
Clone: 18d3
Isotype: Rat IgG2a, κ

Available Formats of This Product				
Cat. No.	Format	Excite (nm)	Emit (nm)	Reported Applications
11-0941	FITC anti-mouse CD94	488	518	FC
12-0941	PE anti-mouse CD94	488	575	FC
13-0941	Biotin anti-mouse CD94	N/A	N/A	FC
14-0941	Affinity Purified anti-mouse CD94	N/A	N/A	FC

Description

The 18d3 monoclonal antibody reacts with mouse CD94, a 70 kDa type II transmembrane glycoprotein. CD94 belongs to the C-type lectin superfamily and is present as a heterodimer with NKG2 on the surface. CD94 is expressed by NK cells, a subset of T cells, and NKT cells and plays an important role in adhesion and activation of NK cell lineage. DBA/2J mice are naturally CD94-deficient and do not express cell-surface CD94/NKG2A receptors, even on neonatal NK cells.

Usage

For research use only, not for diagnostic or therapeutic use. The 18d3 antibody has been reported for use in flow cytometric analysis.

Applications Tested

The 18d3 antibody has been tested by flow cytometric analysis of mouse splenocyte suspensions. This can be used at less than or equal to 0.25 µg per million cells in a 100 µl total staining volume. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Related Products

Cat. 11-0941 FITC anti-mouse CD94 (clone 18d3)
Cat. 13-0941 Biotin anti-mouse CD94 (clone 18d3)
Cat. 14-0941 Affinity Purified anti-mouse CD94 (clone 18d3)
Cat. 12-4321 PE Rat IgG2a Isotype Control

References

Vance, R. E., A. M. Jamieson, et al. (1999). "Recognition of the class Ib molecule Qa-1(b) by putative activating receptors CD94/NKG2C and CD94/NKG2E on mouse natural killer cells." J Exp Med 190(12): 1801-12.
Vance, R. E., J. R. Kraft, et al. (1998). "Mouse CD94/NKG2A is a natural killer cell receptor for the nonclassical major histocompatibility complex (MHC) class I molecule Qa-1(b)." J Exp Med 188(10): 1841-8.

Vance, R. E., D. M. Tanamachi, et al. (1997). "Cloning of a mouse homolog of CD94 extends the family of C-type lectins on murine natural killer cells." Eur J Immunol 27(12): 3236-41.