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TECHNICALLY Speaking

Place your order with CEDARLANE® or your local distributor.

Please contact CEDARLANE® for lot specific information.

Anti-Mouse CD94 Monoclonal Antibody

Catalogue#	Format	Size	Concentration	Isotype Control
CL8950AP	Purified	250ug	1 mg/ml	CLCR100
CL8950F	FITC	100ug	0.1 mg/ml	CLCR101
CL8950PE	PE	50ug	0.1 mg/ml	CLCR104

Isotype: Rat IgG1κ

DESCRIPTION:

Cedarlane's anti-mouse CD94 monoclonal antibody detects the mouse CD94 receptor. This 180 amino acid, 70 KDa transmembrane glycoprotein belongs to a family of murine Natural Killer (NK) cell receptors for MHC class I and is co-expressed as a heterodimer with NKG2 on the cellular surface. CD94 is expressed on NK cells as well as NK T cells. Both the murine CD94/NKG2 heterodimer and its human homologue are expressed on Th1 but not Th2 cells.

Similar in function to the NKG2 family of receptors, CD94 is involved in NK target cell recognition, functions as an inhibitory receptor and plays an important role in adhesion and activation of the NK cell lineage. The unique expression of the CD94/NKG2 heterodimer on the Th1 subset of activated CD4⁺ cells suggests the potential use of our CL8950AP antibody in cell differentiation studies.

This antibody has been reported to work in Flow Cytometry, ELISA.

PRESENTATION:

Purified:

Purified IgG buffered in PBS and 0.02% NaN₃. (Purified from ascitic fluid via Protein G Chromatography).

Biotin, FITC and PE:

Biotin/FITC/PE conjugated IgG buffered in PBS, 0.02% NaN₃ and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/mL.

No Azide:

Purified Ig buffered in PBS, no preservative, 0.2µm sterile filtered.

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For more information or to place an order please contact...

CEDARLANE®
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or visit our website for a list of our international distributors including contact information
website: www.cedarlanelabs.com • e-mail: info@cedarlanelabs.com

STORAGE/STABILITY:

For all formats, store at 4°C. DO NOT FREEZE PE conjugates. For long term storage (**Purified, Biotin, FITC, No Azide**), aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles.

SPECIFICATIONS:

Clone: 15F.18D1

Hybridoma Production:

Hybridoma Production:

Immunization:

Immunogen: Murine T cell clone AE7 cells

Donor: Lewis Rat spleen cells

Fusion Partner: Murine myeloma cell line SP2/0

Specificity: Mouse CD94 transmembrane glycoprotein

Ig Class: Lewis Rat IgG1κ

TEST RESULTS:

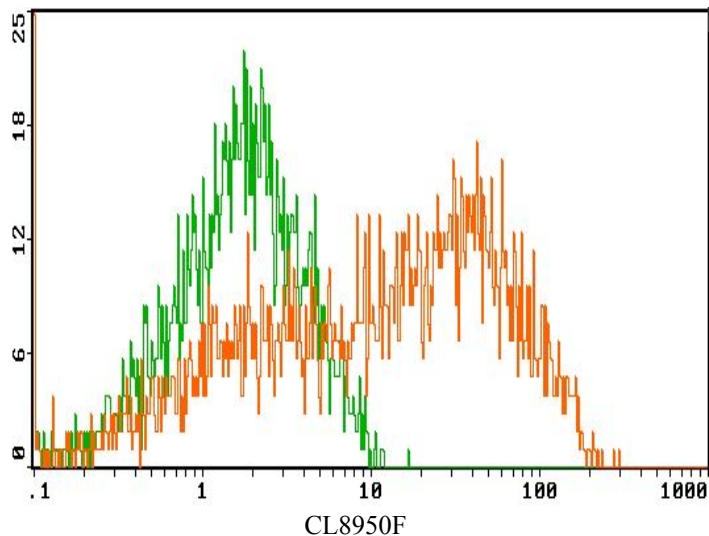
Tissue Distribution by Flow Cytometry Analysis:

Mouse Strain: C57/BL6

Cell Concentration : 1x10⁶ cells per test

Antibody Concentration Used: 2.0 µg/10⁶ cells

Isotypic Control: FITC Rat IgG₁ (CLCR101)



Cell Source: Mouse Splenocytes
Percentage of cells stained above control: 53.4%

N.B. Appropriate control samples should always be included in any labeling studies.

*** For optimal results in various applications, it is recommended that each investigator determine dilutions appropriate for individual use.**

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REFERENCES:

1. Meyers J et al. 2002. Cutting Edge: CD94/NKG2 Is Expressed on Th1 But Not Th2 Cells and Costimulates Th1 Effector Functions. *The Journal of Immunology*, September 20, 169:5382-5386.
2. Sorimachi, N.T. et al. 2001. Mouse CD94 Participates in Qa-1-Mediated Self Recognition by NK Cells and Delivers Inhibitory Signals Independent of Ly-49. *The Journal of Immunology*. January 2, 166:3771-3779.
3. Vance R.E. 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.* November 16, 188(10) 1841-1848.

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