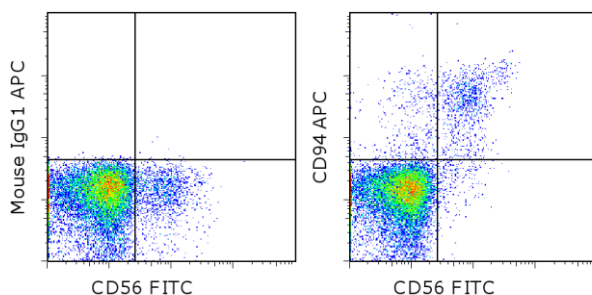


Anti-Canine/Human CD94 APC

Catalog Number: 17-5094

Also known as: KLRD1, KP43

RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of normal human peripheral blood cells with Anti-Human CD56 (NCAM) FITC (cat. 11-0569) and Mouse IgG1 K Isotype Control APC (cat. 17-4714) (left) or Anti-Canine/Human CD94 APC (right). Cells in the lymphocyte gate were used for analysis.

Product Information



Contents: Anti-Canine/Human CD94 APC

Catalog Number: 17-5094

Clone: HP-3D9

Concentration: 5 μ L (0.125 μ g)/test

Host/Isotype: Mouse IgG1, kappa



Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

Temperature Limitation: Store at 2-8°C. Do not freeze. Light-sensitive material.



Batch Code: Refer to vial



Use By: Refer to vial

Description

The HP-3D9 monoclonal antibody reacts with human CD94, a 70-kDa type II transmembrane glycoprotein. CD94 belongs to the C-type lectin superfamily and is expressed by NK cells, NKT cells, as well as subsets of CD8⁺ T cells and gamma delta T cells. This molecule is present as a heterodimer with members of the NKG2 family of receptors on the cell surface. CD94 dimerization with NKG2A results in an inhibitory receptor that suppresses NK cell function. In contrast, CD94 association with NKG2C and NKG2E leads to formation of an activating receptor complex that binds DAP12, an adapter protein that contains an ITAM motif. The CD94/NKG2 receptor complex binds the non-classical MHC Class Ib molecule HLA-E and plays important roles in adhesion and NK cell activation.

Crossblocking studies indicate that HP-3D9 and DX22 recognize the same epitope.

Applications Reported

This HP-3D9 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This HP-3D9 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 μ L (0.125 μ g) per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test.

References

Pace E, Di Sano C, Ferraro M, Tipa A, Olivieri D, Spatafora M, Santagata R, Bellia V, Gjomarkaj M. Altered CD94/NKG2A and perforin expression reduce the cytotoxic activity in malignant pleural effusions. *Eur J Cancer*. 2011 Jan;47(2):296-304. (**HP-3D9**, FC)

Orr MT, Wu J, Fang M, Sigal LJ, Spee P, Egebjerg T, Dissen E, Fossum S, Phillips JH, Lanier LL. Development and function of CD94-deficient natural killer cells. *PLoS One*. 2010 Dec 3;5(12):e15184.

Not for further distribution without written consent.

Copyright © 2000-2012 eBioscience, Inc.

Tel: 888.999.1371 or 858.642.2058 • Fax: 858.642.2046 • www.ebioscience.com • info@ebioscience.com

Anti-Canine/Human CD94 APC

Catalog Number: 17-5094

Also known as: KLRD1, KP43

RUO: For Research Use Only. Not for use in diagnostic procedures.

Schuberth HJ, Kucinskiene G, Chu RM, Faldyna M. Reactivity of cross-reacting monoclonal antibodies with canine leukocytes, platelets and erythrocytes. Vet Immunol Immunopathol. 2007 Sep 15;119(1-2):47-55. (**HP-3D9**, canine, FC)

Miller JS, McCullar V. Human natural killer cells with polyclonal lectin and immunoglobulinlike receptors develop from single hematopoietic stem cells with preferential expression of NKG2A and KIR2DL2/L3/S2. Blood. 2001 Aug 1;98(3):705-13. (**HP-3D9**, FC)

Lazetic S, Chang C, Houchins JP, Lanier LL, Phillips JH. Human natural killer cell receptors involved in MHC class I recognition are disulfide-linked heterodimers of CD94 and NKG2 subunits. J Immunol. 1996 Dec 1;157(11):4741-5. (**HP-3D9**, FC)

Related Products

11-0569 Anti-Human CD56 (NCAM) FITC (MEM188 (MEM-188))

17-4714 Mouse IgG1 K Isotype Control APC (P3.6.2.8.1)