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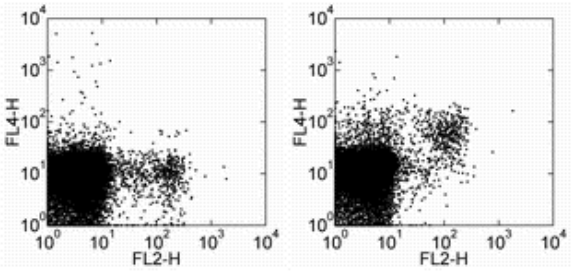
Anti-Mouse CD314 (NKG2D) APC

Catalog Number: 17-5882
Also Known As:KLRK1
RUO: For Research Use Only



Staining of mouse splenocytes with Anti-Mouse CD49b (Integrin alpha 2) PE (cat. 12-5971) and 1.0 ug of Rat IgG1 K Isotype Control APC (cat. 17-4301) (left) or 1.0 ug of Anti-Mouse CD314 (NKG2D) APC (right). Cells in the lymphocyte gate were used for the analysis.

Product Information

Contents: Anti-Mouse CD314 (NKG2D) APC
REF **Catalog Number:** 17-5882
Clone: CX5
Concentration: 0.2 mg/mL
Host/Isotype: Rat 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.
LOT **Batch Code:** Refer to Vial
Use By: Refer to Vial
Caution, contains Azide

Description

The CX5 monoclonal antibody reacts with the mouse NKG2D, a lectin-like molecule expressed on both human and mouse NK cells. Mouse NKG2D binds to retinoic acid-inducible RAE-1 alpha, beta, gamma, delta, epsilon and the minor histocompatibility molecule H60 and has the ability to costimulate multiple NK activation receptors, through the DAP12/DAP10 adaptor molecules. NKG2D is expressed by all spleen and liver NK cells, $NK1.1^+$ thymocytes, *in vitro* activated LAK cells, and a subset of splenic NKT cells.

Applications Reported

This CX5 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This CX5 antibody has been tested by flow cytometric analysis of mouse splenocyte suspensions. This can be used at less than or equal to 1 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Lodoen M, Ogasawara K, Hamerman JA, Arase H, Houchins JP, Mocarski ES, Lanier LL. 2003. NKG2D-mediated natural killer cell protection against cytomegalovirus is impaired by viral gp40 modulation of retinoic acid early inducible 1 gene molecules. J Exp Med. 197(10):1245-53.

Cerwenka A, Baron JL, Lanier LL. 2001. Ectopic expression of retinoic acid early inducible-1 gene (RAE-1) permits natural killer cell-mediated rejection of a MHC class I-bearing tumor in vivo. Proc Natl Acad Sci U S A. 98(20):11521-6.

Cerwenka A, Bakker AB, McClanahan T, Wagner J, Wu J, Phillips JH, Lanier LL. 2000. Retinoic acid early inducible genes define a ligand family for the activating NKG2D receptor in mice. Immunity. 12(6):721-7.

Related Products

12-5971 Anti-Mouse CD49b (Integrin alpha 2) PE (DX5)
16-5873 Anti-Mouse CD314 (NKG2D) Functional Grade Purified (C7)
17-4301 Rat IgG1 K Isotype Control APC