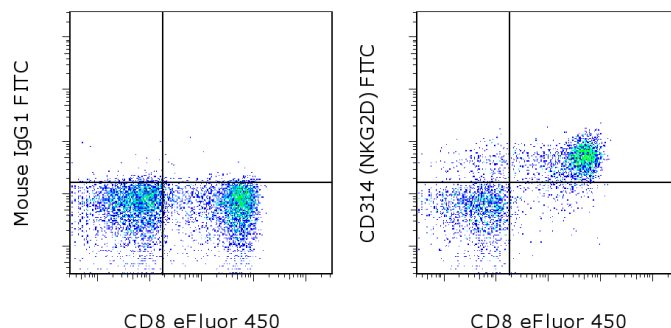


Anti-Human CD314 (NKG2D) FITC

Catalog Number: 11-5878

Also known as: KLRK1

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



Staining of normal human peripheral blood cells with Anti-Human CD8a eFluor® 450 (cat. 48-0086) and Mouse IgG1 K Isotype Control FITC (cat. 11-4714) (left) or Anti-Human CD314 (NKG2D) FITC (right). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Human CD314 (NKG2D) FITC



Catalog Number: 11-5878

Clone: 1D11

Concentration: Suffix -71/73, 20 µL (0.125 µg)/test; Suffix -41/42, 5 µL (0.125 µg)/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

Contains sodium azide



Description

The 1D11 monoclonal antibody reacts with the human NKG2D, a 42 kDa lectin-like molecule expressed by NK cells, gamma delta T cells, some CD4+ and CD8+ T cells. Human NKG2D forms complexes with DAP10, a membrane adaptor protein, and has the ability to costimulate multiple NK activation receptors. The counter-receptor for human NKG2D has been identified as MICA/MICB expressed on epithelial tumors from lung, breast, kidney, ovary, prostate and colon carcinoma. 5C6 and 1D11 block binding of soluble MICA to gamma delta TCR T cell clones and inhibit lysis by these cells. 5C6 and 1D11 induced NKG2D function of redirected lysis of FcReceptor bearing P815 cells.

Applications Reported

The 1D11 antibody has been reported for use in flow cytometric analysis.

Applications Tested

The 1D11 antibody has been tested by flow cytometric analysis of human peripheral blood leukocytes. Refer to catalog number suffix on the vial for amount to use per test: 71/73 are 20 µL (0.125 µg) per test; whereas 41/42 are 5 µL (0.125 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 10⁵ to 10⁸ cells/test.

References

Groh V, Bruhl A, El-Gabalawy H, Nelson JL, Spies T. Stimulation of T cell autoreactivity by anomalous expression of NKG2D and its MIC ligands in rheumatoid arthritis. Proc Natl Acad Sci U S A. 2003. 100(16):9452-7, (IHC frozen, PubMed)

Roberts AI, Lee L, Schwarz E, Groh V, Spies T, Ebert EC, Jabri B. NKG2D receptors induced by IL-15 costimulate CD28-negative effector CTL in the tissue microenvironment. J Immunol. 2001. 167(10):5527-30. (activation, PubMed)

Stefan Bauer, Veronika Groh, Jun Wu, Alexander Steinle, Joseph H. Phillips, Lewis L. Lanier, and Thomas Spies. Activation of NK Cells and T Cells by NKG2D, a Receptor for Stress-Inducible MICA. Science. 1999. 285: 727-729.

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Veronika Groh, Alexander Steinle, Stefan Bauer, and Thomas Spies. Recognition of Stress-Induced MHC Molecules by Intestinal Epithelial T Cells. *Science*. 1998. 279:1737-1740.

Related Products

11-4714 Mouse IgG1 K Isotype Control FITC (P3.6.2.8.1)
12-5879 Anti-Human CD314 (NKG2D) PE (5C6)
13-5879 Anti-Human CD314 (NKG2D) Biotin (5C6)
14-5879 Anti-Human CD314 (NKG2D) Purified (5C6)
48-0086 Anti-Human CD8a eFluor® 450 (OKT8 (OKT-8))