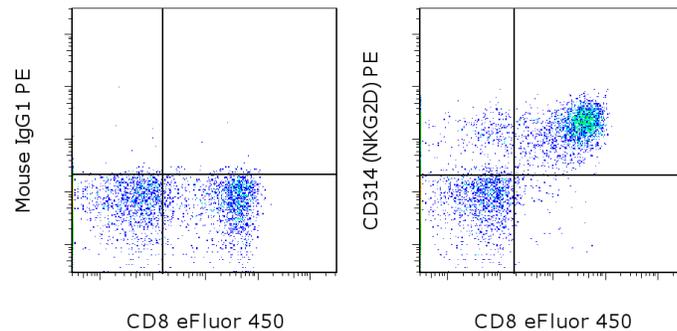


## Anti-Human CD314 (NKG2D) PE

**Catalog Number:** 12-5878

**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<sup>®</sup> 450 (cat. 48-0086) and Mouse IgG1 K Isotype Control PE (cat. 12-4714) (left) or Anti-Human CD314 (NKG2D) PE (right). Cells in the lymphocyte gate were used for analysis.

### Product Information

**Contents:** Anti-Human CD314 (NKG2D) PE



**Catalog Number:** 12-5878

**Clone:** 1D11

**Concentration:** 5  $\mu$ L (0.125  $\mu$ 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

**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

This 1D11 antibody has been pre-titrated and tested by flow cytometric analysis of human peripheral blood leukocytes. This can be used at 5  $\mu$ L (0.125  $\mu$ g) per test. A test is defined as the amount ( $\mu$ g) of antibody that will stain a cell sample in a final volume of 100  $\mu$ L. Cell number should be determined empirically but can range from  $10^5$  to  $10^8$  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

12-4714 Mouse IgG1 K Isotype Control PE (P3.6.2.8.1)

14-5879 Anti-Human CD314 (NKG2D) Purified (5C6)

48-0086 Anti-Human CD8a eFluor® 450 (OKT8 (OKT-8))

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