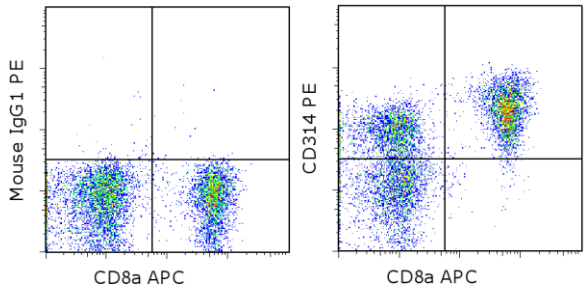
Anti-Rat CD314 (NKG2D) PE

Catalog Number: 12-3140
Also known as: NKR-P2, KLRK1
RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of normal rat peripheral blood cells with Anti-Rat CD8a APC (cat. 17-0084) and 0.06 ug of Mouse IgG1 K Isotype Control PE (cat. 12-4714) (left) or 0.06 ug of Anti-Rat CD314 (NKG2D) PE (right). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Rat CD314 (NKG2D) PE
REF **Catalog Number:** 12-3140
Clone: 11D5F4
Concentration: 0.2 mg/mL
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.
LOT **Batch Code:** Refer to vial
Use By: Refer to vial

Description

This 11D5F4 monoclonal antibody reacts with rat CD314, which is also known as NKG2D. This C-type lectin-like type II transmembrane protein is expressed on NK cells, subsets of T lymphocytes (e.g., CD8+ T cells and gammadelta T cells), NK T cells, and activated macrophages. The frequency of cells expressing NK2GD has been shown to vary among different rat strains. This receptor is involved in activating NK cell cytotoxicity, and has been reported to bind the MHC Class I-related ligands RAE-1L and RRLT to mediate allograft rejection in the rat.

The 11D5F4 antibody has been reported to block killing and IFN gamma secretion by NK cells co-cultured with dendritic cells.

Applications Reported

This 11D5F4 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This 11D5F4 antibody has been tested by flow cytometric analysis of normal rat peripheral blood cells. This can be used at less than or equal to 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 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

Wai LE, Garcia JA, Martinez OM, Krams SM. Distinct roles for the NK cell-activating receptors in mediating interactions with dendritic cells and tumor cells. J Immunol. 2011 Jan 1;186(1):222-9. (**11D5F4**, Pubmed, FC)

Zhuo M, Fujiki M, Wang M, Piard-Ruster K, Wai LE, Wei L, Martinez OM, Krams SM. Identification of the rat NKG2D ligands, RAE1L and RRLT, and their role in allograft rejection. Eur J Immunol. 2010 Jun;40(6):1748-57. (**11D5F4**, Pubmed, FC)

Berg SF, Dissen E, Westgaard IH, Fossum S. Molecular characterization of rat NKR-P2, a lectin-like receptor

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expressed by NK cells and resting T cells. Int Immunol. 1998 Apr;10(4):379-85.

Related Products
12-4714 Mouse IgG1 K Isotype Control PE (P3.6.2.8.1)
17-0084 Anti-Rat CD8a APC (OX8)

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