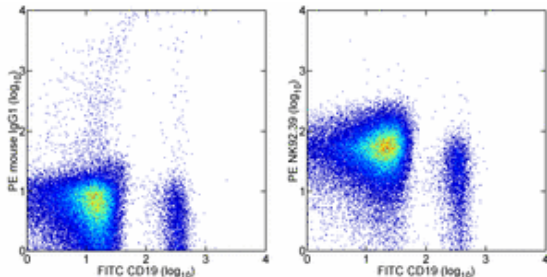


Anti-Human CD96 (TACTILE) PE

Catalog Number: 12-0969

RUO: For Research Use Only



Staining of normal human peripheral blood cells with Anti-Human CD19 FITC (cat. 11-0199) and Mouse IgG1 κ Isotype Control PE (cat. 12-4714) (left) or Anti-Human CD96 (TACTILE) PE (right). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Human CD96 (TACTILE) PE

 Catalog Number: 12-0969

Clone: NK92.39

Concentration: 5 μ l (0.5 μ g)/test

Host/Isotype: Mouse IgG1

Formulation: Phosphate buffered saline, pH 7.2, less than or equal to 0.09% NaN₃, BSA and/or gelatin for protein stabilization



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



Batch Code: Refer to Vial



Use By: Refer to Vial



Caution, contains Azide

Description

The NK92.39.1 monoclonal antibody reacts with human CD96 also known as TACTILE (T cells-activated increased late expression). CD96 is a type I membrane protein of the Immunoglobulin Superfamily. CD96 promotes NK cell adhesion to cells expressing the polio virus receptor (CD155). Therefore CD96 is an additional receptor for CD155. After binding of PVR to CD96, the PVR can be transferred to the target cell and CD96 can be internalized with bound PVR. This internalization may lead to cell death of the NK cell. This phenomenon may be significant in tumor cells which express high levels of PVR. Furthermore expression of CD96 has been found in the majority of CD34(+)CD38(-) Acute Myeloid Leukemic cells.

The NK92.39.1 antibody can block binding of soluble CD155 to NK cell lines.

Applications Reported

For research use only, not for diagnostic or therapeutic use. This NK92.39 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This NK92.39 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 (0.5 μ g)/per test. A test is defined as the amount (μ g)/test 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

Fuchs A, Cella M, Giurisato E, Shaw AS, Colonna M. Cutting edge: CD96 (tactile) promotes NK cell-target cell adhesion by interacting with the poliovirus receptor (CD155). J Immunol. 2004 Apr 1;172(7):3994-8. (NK92.39.1, FC, FA, PubMed)

Hosen N, Park CY, Tatsumi N, Oji Y, Sugiyama H, Gramatzki M, Krensky AM, Weissman IL. CD96 is a leukemic stem cell-specific marker in human acute myeloid leukemia. Proc Natl Acad Sci U S A. 2007 Jun 26;104(26):11008-13. Epub 2007 Jun 18.

Related Products

12-4714 Mouse IgG1 K Isotype Control PE