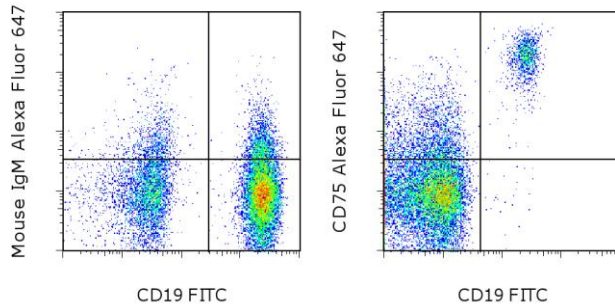


Anti-Human CD75 Alexa Fluor[®] 647

Catalog Number: 51-0759

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



Staining of normal human peripheral blood cells with Anti-Human CD19 FITC (cat. 11-0199) and Mouse IgM Isotype Control Alexa Fluor[®] 647 (left) or Anti-Human CD75 Alexa Fluor[®] 647 (right). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Human CD75 Alexa Fluor[®] 647

REF **Catalog Number:** 51-0759

Clone: LN-1

Concentration: 5 μ L (0.25 μ g)/test

Host/Isotype: Mouse IgM

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



LOT



Description

This LN-1 monoclonal antibody reacts with human CD75, a cell surface carbohydrate determinant produced by alpha-2,6-sialyltransferase. CD75 is expressed predominantly on mature B cells in peripheral blood and germinal centers, as well as several B cell lines (e.g., Raji, Ramos). CD75 is also expressed on non-immune tissues such as breast, prostate, colon, liver, and kidney. Reports demonstrate that CD75 is a ligand of CD22.

Studies have shown that, depending on fixation and tissue processing, the LN-1 antibody also recognizes astrocytes and microglia in the human brain.

Applications Reported

This LN-1 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This LN-1 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 (0.25 μ g) per test. A test is defined as the amount (μ g) 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 10^5 to 10^8 cells/test.

References

Munro S, Bast BJ, Colley KJ, Tedder TF. The B lymphocyte surface antigen CD75 is not an alpha-2,6-sialyltransferase but is a carbohydrate antigen, the production of which requires the enzyme. *Cell*. 1992 Mar 20;68(6):1003.

Stamenkovic I, SgROI D, Aruffo A, Sy MS, Anderson T. The B lymphocyte adhesion molecule CD22 interacts with leukocyte common antigen CD45RO on T cells and alpha 2-6 sialyltransferase, CD75, on B cells. *Cell*. 1991 Sep 20;66(6):1133-44.

Dickson DW, Mattiace LA. Astrocytes and microglia in human brain share an epitope recognized by a B-lymphocyte-specific monoclonal antibody (LN-1). *Am J Pathol*. 1989 Jul;135(1):135-47. (LN-1, IHC-Fr)

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Epstein AL, Marder RJ, Winter JN, Fox RI. Two new monoclonal antibodies (LN-1, LN-2) reactive in B5 formalin-fixed, paraffin-embedded tissues with follicular center and mantle zone human B lymphocytes and derived tumors. J Immunol. 1984 Aug;133(2):1028-36. (LN-1, FC, IHC-P)

Related Products

11-0199 Anti-Human CD19 FITC (HIB19)

Legal

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