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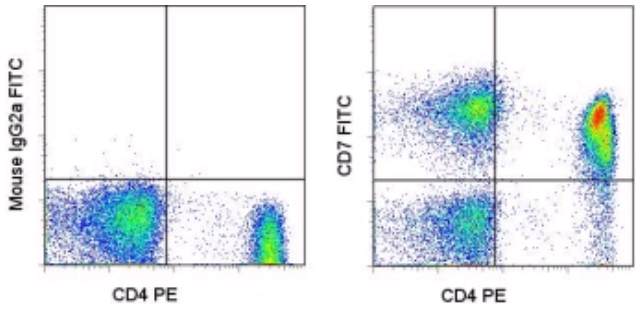
Anti-Human CD7 FITC

Catalog Number: 11-0078
Also Known As:Leu-9
RUO: For Research Use Only



Staining of normal human peripheral blood cells with Anti-Human CD4 PE (cat. 12-0048) and Mouse IgG2a κ Isotype Control FITC (cat. 11-4724) (left) or Anti-Human CD7 FITC (right). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Human CD7 FITC
REF Catalog Number: 11-0078
Clone: 4H9
Concentration: 5 µl (0.125 ug)/test
Host/Isotype: Mouse IgG2a, κ

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
Caution, contains Azide

Description

This 4H9 monoclonal antibody reacts with human CD7 (also known as Leu-9 or gp40), a 40-kDa transmembrane glycoprotein belonging to the immunoglobulin superfamily. This molecule is expressed on peripheral blood T lymphocytes and natural killer cells, as well as on lymphoid and myeloid lineage precursors during adult hematopoiesis. Capable of providing a costimulatory signal and associating with CD3 and CD45, CD7 is involved in T cell activation.

CD7 has also been detected on numerous T cell-derived leukemias and lymphomias. In fact, because CD7 expression is greater on CD4+ T cells in classical Hodgkin's lymphoma than in benign reactive lymph adenopathy, this molecule may be used as a diagnostic for Hodgkin's lymphoma.

Blocking assays demonstrate that this clone recognizes the same epitope as clone 124-1D1.

Applications Reported

This 4H9 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This 4H9 antibody has been pre-titrated and tested by flow cytometric analysis on normal human peripheral blood cells. This can be used at 5 µl (0.125 ug)/per test. A test is defined as the amount (µg)/test 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.

References

Seegmiller AC, Karandikar NJ, Kroft SH, McKenna RW, Xu Y. Overexpression of CD7 in classical Hodgkin lymphoma-infiltrating T lymphocytes. Cytometry B Clin Cytom. 2008 Oct 27. Epub ahead of print. (Pubmed)

Weiss LM, Crabtree GS, Rouse RV, Warnke RA. Morphologic and immunologic characterization of 50 peripheral T-cell lymphomas. Am J Pathol. 1985 Feb;118(2): 316-24.

Link M, Warnke R, Finlay J, Amylon M, Miller R, Dilley J, Levy R. A single monoclonal antibody identifies T-cell lineage of childhood lymphoid malignancies. Blood. 1983 Oct;62(4): 722-8. (4H9, FC, Pubmed)

Related Products

12-0048 Anti-Human CD4 PE (OKT4 (OKT-4))

12-0079 Anti-Human CD7 PE (eBio124-1D1 (124-1D1))
12-4724 Mouse IgG2a K Isotype Control PE
14-0079 Anti-Human CD7 Purified (eBio124-1D1 (124-1D1))

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