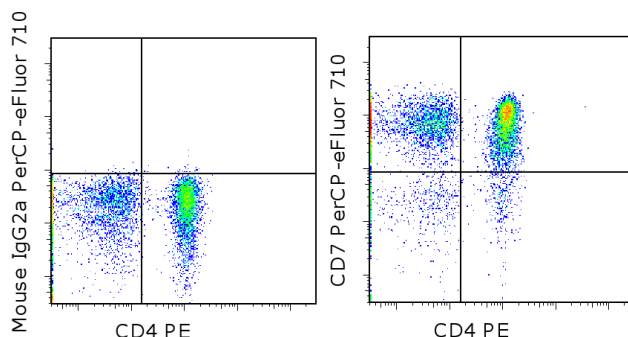


Anti-Human CD7 PerCP-eFluor® 710

Catalog Number: 46-0078

Also known as: Leu-9

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



Staining of normal human peripheral blood cells with Anti-Human CD4 PE (cat. 12-0048) and Mouse IgG2a K Isotype Control PerCP-eFluor® 710 (cat. 46-4724) (left) or Anti-Human CD7 PerCP-eFluor® 710 (right). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Human CD7 PerCP-eFluor® 710



Catalog Number: 46-0078

Clone: 4H9

Concentration: 5 uL (0.25 ug)/test

Host/Isotype: Mouse IgG2a, 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

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 lymphomas. 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 of normal human peripheral blood cells. This can be used at 5 µL (0.25 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 10⁵ to 10⁸ cells/test.

PerCP-eFluor® 710 can be used in place of PE-Cy5, PE-Cy5.5 or PerCP-Cy5.5. PerCP-eFluor® 710 emits at 710 nm and is excited with the blue laser (488 nm). Please make sure that your instrument is capable of detecting this fluorochrome. For a filter configuration, we recommend using the 685 LP dichroic mirror and 710/40 band pass filter, however the 695/40 band pass filter is an acceptable alternative.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 uL cell sample + 100 uL IC Fixation

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Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

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. (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))

46-4724 Mouse IgG2a K Isotype Control PerCP-eFluor® 710