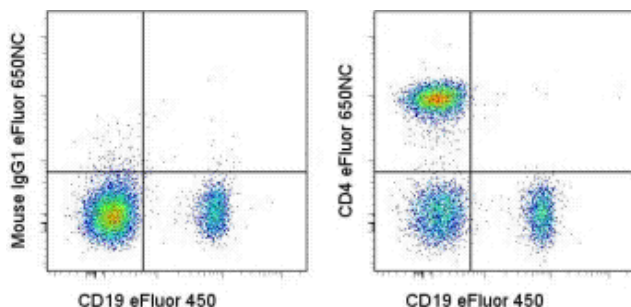


Anti-Human CD4 eFluor® 650NC

Catalog Number: 95-0049

Also Known As: Leu-3, T4

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



Staining of normal human peripheral blood cells with Anti-Human CD19 eFluor® 450 (cat. 48-0199) and Mouse IgG1 K Isotype Control (cat. 95-4714) eFluor® 650NC (left) or Anti-Human CD4 eFluor® 650NC (right). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Human CD4 eFluor® 650NC

REF **Catalog Number:** 95-0049

Clone: RPA-T4

Concentration: 5 uL

Host/Isotype: Mouse IgG1, kappa

HLDA Workshop: IV T114

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

Temperature Limitation: Store at 2-8°C. Light sensitive material. This product is guaranteed for 6 months upon receipt when stored properly.

LOT **Batch Code:** Refer to Vial

Use By: Refer to Vial

Caution, contains Azide

Description

The RPA-T4 monoclonal antibody reacts with human CD4, a 59 kDa cell surface receptor expressed by a majority of thymocytes, subpopulation of mature T cells (T-helper cells) and in low levels on monocytes. CD4 is a receptor for the human immunodeficiency virus (HIV). RPA-T4 blocks HIV binding and mixed lymphocyte reaction. The RPA-T4 antibody recognizes a different epitope than the OKT4 monoclonal antibody, and these antibodies do not cross-block binding to each other's respective epitopes.

Applications Reported

This RPA-T4 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This RPA-T4 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL per test. A test is defined as the amount 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.

The Isotype Control Mouse IgG1 eFluor® 650NC (cat. 95-4714) should be used at 2.5 uL/test.

Laser/Filter Recommendation: When using eFluor 650NC, we recommend excitation with the 405nm violet laser with an appropriate filter set, such as the 630 LP dichroic mirror with the 660/40 bandpass filter. The eFluor 650NC can be minimally excited off of the 633 nm laser, and because its peak emission is 650nm, it will require some compensation out of the APC detector.

Fixation Recommendation: When fixing samples that have been stained with nanocrystal reagents, we recommend keeping the total volume at approximately 200 uL. (100 uL cells + 100 uL IC Fixation Buffer (cat. 00-8222)) and the exposure time at 30-60 minutes to preserve the optimal fluorescent signal from the nanocrystal reagent.

For answers about fixation and other questions, please refer to Nanocrystal Frequently Asked Questions or contact eBioscience Technical Support.

References

Knapp, W., B. Dorken, et al. eds. (1989). Leucocyte Typing IV: White Cell Differentiation Antigens. Oxford University Press. New York.

Related Products

00-4222 Flow Cytometry Staining Buffer

48-0199 Anti-Human CD19 eFluor® 450 (HIB19)

93-0037 Anti-Human CD3 eFluor® 605NC (OKT3)

93-0088 Anti-Human CD8a eFluor® 605NC (RPA-T8)
95-4714 Mouse IgG1 K Isotype Control eFluor® 650NC (P3.6.2.8.1)

Legal

Under patent number: US 7,939,170 and additional pending patent application(s)

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