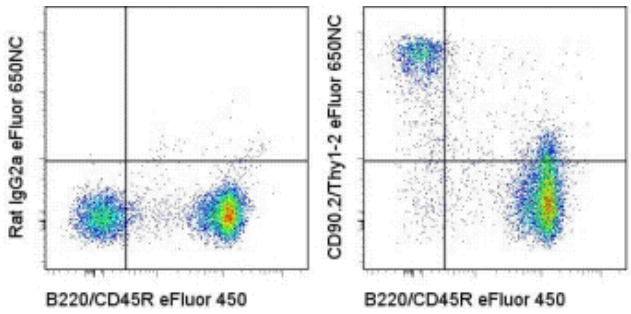
Anti-Mouse CD90.2 (Thy-1.2) eFluor® 650NC

Catalog Number: 95-0902
Also Known As: Thy1.2
RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of C57BL/6 splenocytes with Anti-Human/Mouse CD45R (B220) eFluor® 450 (cat. 48-0452) and Rat IgG2a K Isotype Control eFluor® 650NC (cat. 95-4321) (left) or Anti-Mouse CD90.2 (Thy-1.2) eFluor® 650NC (right). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse CD90.2 (Thy-1.2) eFluor® 650NC
REF **Catalog Number:** 95-0902
Clone: 53-2.1
Concentration: 5 uL
Host/Isotype: Rat IgG2a, kappa

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 53-2.1 monoclonal antibody reacts with mouse CD90.2 also known as Thy-1.2, a GPI-linked membrane molecule. CD90.2 is expressed by mouse thymocytes and mature T cells as well as neurons in CD90.2-expressing mouse strains. These strains include BALB/c, CBA, C3H, C57BL/6, C58/, SJL and others. Cells from CD90.1-expressing strains including PL and AKR do not stain with 53-2.1. CD90 is involved in regulation of adhesion and signal transduction by T cells.

Applications Reported
This 53-2.1 antibody has been reported for use in flow cytometric analysis.

Applications Tested
This 53-2.1 antibody has been pre-titrated and tested by flow cytometric analysis of mouse splenocytes. This can be used at 5 µL 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 10^5 to 10^8 cells/test.

The isotype control eFluor® 650NC rat IgG2a (cat. 95-4321) should be used at 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
Ledbetter, J. A. and L. A. Herzenberg (1979). Xenogeneic monoclonal antibodies to mouse lymphoid differentiation antigens. mmunol Rev 47: 63-90.

Related Products
00-4222 Flow Cytometry Staining Buffer

48-0032 Anti-Mouse CD3 eFluor® 450 (17A2)
48-0452 Anti-Human/Mouse CD45R (B220) eFluor® 450 (RA3-6B2)
93-0452 Anti-Human/Mouse CD45R (B220) eFluor® 605NC (RA3-6B2)
95-4321 Rat IgG2a K Isotype Control eFluor® 650NC (eBR2a)

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

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