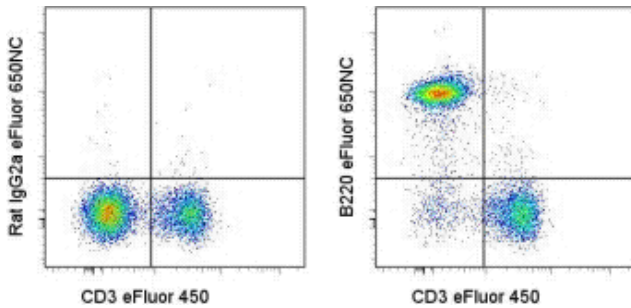


Anti-Human/Mouse CD45R (B220) eFluor® 650NC

Catalog Number: 95-0452

Also Known As: Ly-5, Lyt-4, T200

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



Staining of BALB/c splenocytes with Anti-Mouse CD3e eFluor® 450 (cat. 48-0032) and Rat IgG2a K Isotype Control eFluor® 650NC (cat. 95-4321) (left) or Anti-Human/Mouse CD45R (B220) eFluor® 650NC (right). Total viable cells were used for analysis.

Product Information

Contents: Anti-Human/Mouse CD45R (B220) eFluor® 650NC

REF **Catalog Number:** 95-0452

Clone: RA3-6B2

Concentration: 5 µL

Host/Isotype: Rat IgG2a, kappa

HLDA Workshop: N/A

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 RA3-6B2 monoclonal antibody reacts with exon A-restricted isoform of mouse CD45, a 220 kDa surface molecule. CD45R/B220 epitope is mainly expressed by the B cell lineage from early Pro-B to mature B cells. However, some activated T cells, lymphokine activated killer cells (LAK), NK cell progenitors in the bone marrow, and T cells of the *lpr/lpr* mutant mouse also express this antigen.

Applications Reported

This RA3-6B2 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This RA3-6B2 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 10⁵ to 10⁸ cells/test.

The isotype control eFluor® 650NC Rat IgG2a (cat. 95-4321) should be used at 5 µL/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 µL. (100 µL cells + 100 µL 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

Schuhmann B, Dietrich A, et al. 2005. A role for brain-derived neurotrophic factor in B cell development. *J Neuroimmunol.* 163(1-2):15-23. (RA3-6B2, IHC frozen, PubMed)

Monteith CE, Chelack BJ, et al. 1996. Identification of monoclonal antibodies for immunohistochemical staining of feline B lymphocytes in frozen and formalin-fixed paraffin-embedded tissues. *Can J Vet Res.* 60(3):193-8. (IHC frozen and paraffin, PubMed)

Morse, H. C. d., W. F. Davidson, et al. 1982. Abnormalities induced by the mutant gene *lpr*: expansion of a unique lymphocyte subset. *J Immunol.*

129(6): 2612-5.

Coffman, R. L. 1982. Surface antigen expression and immunoglobulin gene rearrangement during mouse pre-B cell development. Immunol Rev. 69: 5-23.

Related Products

00-4222 Flow Cytometry Staining Buffer

48-0032 Anti-Mouse CD3 eFluor® 450 (17A2)

93-0193 Anti-Mouse CD19 eFluor® 605NC (eBio1D3 (1D3))

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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