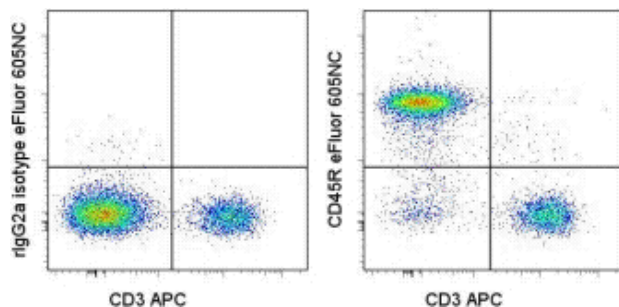


## Anti-Human/Mouse CD45R (B220) eFluor® 605NC

**Catalog Number:** 93-0452

**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 APC (cat. 17-0031) and Rat IgG2a K Isotype Control eFluor® 605NC (cat. 93-4321) (left) or Anti-Human/Mouse CD45R (B220) eFluor® 605NC (right). Total viable cells were used for analysis.

### Product Information

**Contents:** Anti-Human/Mouse CD45R (B220) eFluor® 605NC

**REF** **Catalog Number:** 93-0452

**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 µ 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 10<sup>5</sup> to 10<sup>8</sup> cells/test.

The Rat IgG2b Isotype Control eFluor 605NC (cat. 93-4321) should be used at 5 µL/test.

**Laser/Filter Recommendation:** When using eFluor 605NC, we recommend excitation with the 405nm violet laser with an appropriate filter set, such as the 595LP dichroic mirror with the 605/40 bandpass filter. An acceptable alternative is the 610/20 bandpass filter. For instruments not equipped with a violet laser, the eFluor 605NC is also excited by the 488 nm blue laser and can be used as a PE-Texas Red alternative.

**Fixation Recommendation:** When fixing samples that have been stained with nanocrystal reagents, we recommend keeping the total volume at approximately 200 µL of IC Fixation Buffer (cat. 00-8222) and the exposure time 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

17-0031 Anti-Mouse CD3e APC (145-2C11)

93-4321 Rat IgG2a K Isotype Control eFluor® 605NC (eBR2a)

**Legal**

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

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