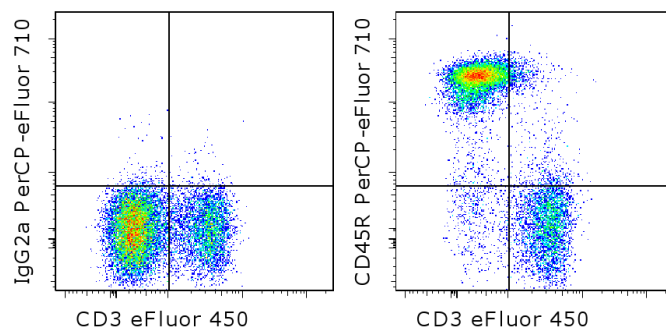


Anti-Human/Mouse CD45R (B220) PerCP-eFluor® 710

Catalog Number: 46-0452

Also known as: Ly-5, Lyt-4, T200

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



Staining of C57Bl/6 splenocytes with Anti-Mouse CD3 eFluor® 450 (cat. 48-0032) and 0.25 ug of Rat IgG2a K Isotype Control PerCP-eFluor® 710 (cat. 46-4321) (left) or 0.25 ug of Anti-Human/Mouse CD45R (B220) PerCP-eFluor® 710 (right). Total viable cells were used for analysis.

Product Information

Contents: Anti-Human/Mouse CD45R (B220) PerCP-eFluor® 710

Catalog Number: 46-0452

Clone: RA3-6B2

Concentration: 0.2 mg/mL

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. Do not freeze. Light-sensitive material.

Batch Code: Refer to vial

Use By: Refer to vial

Contains sodium 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 tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.5 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. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

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 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

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)

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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

46-4321 Rat IgG2a K Isotype Control PerCP-eFluor® 710 (eBR2a)

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