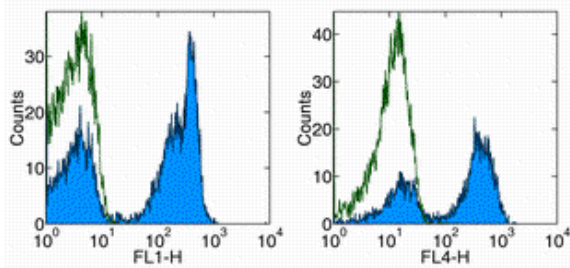


Anti-Human/Mouse CD45R (B220) Functional Grade Purified

Catalog Number: 16-0452

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

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



Staining of mouse splenocytes with Anti-Human/Mouse CD45R (B220) FITC (left) or APC (right). Appropriate isotype controls were used (open histogram). Total viable cells were used for analysis.

Product Information

Contents: Anti-Human/Mouse CD45R (B220) Functional Grade Purified

REF **Catalog Number:** 16-0452

Clone: RA3-6B2

Concentration: 1 mg/mL

Host/Isotype: Rat IgG2a, kappa

HLDA Workshop: N/A

Handling Conditions: Use in sterile environment.

Endotoxin Level: Less than 0.001 ng/ug antibody, as determined by the LAL assay.

Formulation: aqueous buffer, no sodium azide

 **Temperature Limitation:** Store at 2-8°C.

LOT **Batch Code:** Refer to Vial

 **Use By:** Refer to Vial

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

The RA3-6B2 antibody has been reported for use in flow cytometric analysis. RA3-6B2 has also been reported in functional studies of B cells.

Applications Tested

The RA3-6B2 antibody has been tested by flow cytometric analysis of mouse splenocyte suspensions and 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.

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

11-4317 Streptavidin FITC

11-4811 Anti-Rat IgG FITC

12-4317 Streptavidin PE

13-4813 Anti-Rat IgG Biotin (Polyclonal)

17-4317 Streptavidin APC

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