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## Anti-Human/Mouse CD45R (B220) eFluor<sup>®</sup> 615

**Catalog Number:** 42-0452

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

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

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### Product Information

**Contents:** Anti-Human/Mouse CD45R (B220)  
eFluor<sup>®</sup> 615

**[REF] Catalog Number:** 42-0452

**Clone:** RA3-6B2

**Concentration:** 0.2 mg/mL

**Host/Isotype:** Rat IgG2a , k

**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.

**[LOT] Batch Code:** Refer to vial

**Use By:** Refer to vial

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### 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 immunohistochemical staining of frozen tissue sections (IHC-F), and immunocytochemistry.

### Applications Tested

This RA3-6B2 antibody has been tested by immunohistochemistry on frozen mouse spleen at less than or equal to 1 ug/mL. It is recommended that this antibody be carefully titrated for optimal performance in the assay of interest. This product has not been validated for flow cytometric analysis.

**Filter Recommendation:** When using this eFluor<sup>®</sup> 615 antibody conjugate, we recommend a filter that will capture the 615 emission wavelength (for example, Excitation 560/55, 585LP, Emission 645/75). A standard Alexa Fluor<sup>®</sup> 594 filter is acceptable.

### 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

00-4953 IHC /ICC Blocking Buffer - Low Protein  
00-4954 20X TBS Wash Buffer for IHC/ICC  
00-4958 Fluoromount-G<sup>™</sup>  
42-4321 Rat IgG2a K Isotype Control eFluor<sup>®</sup> 615 (eBR2a)

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