



CD45R (B220) Monoclonal Antibody (RA3-6B2), PE-Cyanine5, eBioscience™

| Product Details | |
|--------------------------------|--|
| Size | 100 μg |
| Species Reactivity | Human, Mouse |
| Published Species | Fish, Mouse, Human |
| Host/Isotype | Rat / IgG2a, kappa |
| Recommended Isotype Control | Rat IgG2a kappa Isotype Control (eBR2a), PE-Cyanine5, eBioscience™ |
| Class | Monoclonal |
| Туре | Antibody |
| Clone | RA3-6B2 |
| Conjugate | PE-Cyanine5 |
| Form | Liquid |
| Concentration | 0.2 mg/mL |
| Purification | Affinity chromatography |
| Storage buffer | PBS, pH 7.2, with 0.1% gelatin |
| Contains | 0.09% sodium azide |
| Storage conditions | 4° C, store in dark, DO NOT FREEZE! |
| RRID | AB_468755 |

| Applications | Tested Dilution | Publications |
|---|-----------------|-----------------|
| Western Blot (WB) | - | 1 Publication |
| Immunohistochemistry (Frozen) (IHC (F)) | - | 1 Publication |
| Immunocytochemistry (ICC/IF) | - | 1 Publication |
| Flow Cytometry (Flow) | 0.25 µg/test | 86 Publications |
| Miscellaneous PubMed (Misc) | - | 1 Publication |

Product Specific Information

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 I{Ipr/IprI} mutant mouse also express this antigen.

Applications Reported: The RA3-6B2 antibody has been reported for use in flow cytometric analysis.

Applications Tested: The RA3-6B2 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.25 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.

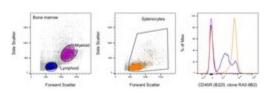
Light sensitivity: This tandem dye is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL cell sample + 100 µL 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.

Excitation: 488-561 nm; Emission: 667 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

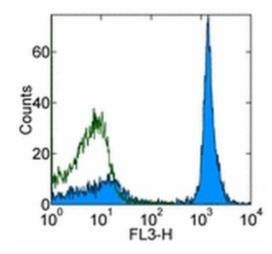
Advanced Verification Data



CD45R (B220) Antibody (15-0452-82)

Staining of mouse splenocytes and bone marrow cells. As expected based on known relative expression patterns, CD45R (B220) clone RA3-6B2 stains subsets in both the splenocytes gate and the bone marrow lymphoid gate but not the bone marrow myeloid gate. Details: Balb/c bone marrow cells (left) and splenocytes (middle) were surface stained with CD45R (B220, clone RA3-6B2) followed by staining with 7-AAD. Viable bone marrow cells in the lymphoid (blue histogram) and myeloid (purple histogram) gates and viable splenocytes (orange histogram) were used for analysis. Relative expression validation info.

Product Images For CD45R (B220) Monoclonal Antibody (RA3-6B2), PE-Cyanine5, eBioscience™



CD45R (B220) Antibody (15-0452-82) in Flow

Staining of BALB/c splenocytes with 0.06 μ g of Rat IgG2a K Isotype Control PE-Cyanine5 (Product # 15-4321-80) (blue histogram) or 0.06 μ g of Anti-Human/Mouse CD45R (B220) PE-Cyanine5 (purple histogram). Cells in the lymphocyte gate were used for analysis.

View more figures on thermofisher.com

□ 90 References

Western Blot (1)

Nature immunology

The miR-126-VEGFR2 axis controls the innate response to pathogenassociated nucleic acids.

"15-0452 was used in Western Blotting to identify the miR-126-VEGFR2 axis as an important regulator of the innate response that operates through multiscale control of pDCs."

Authors: Agudo J,Ruzo A,Tung N,Salmon H,Leboeuf M,Hashimoto D,Becker C,Garrett-Sinha LA,Baccarini A,Merad M, Brown BD

Species Mouse

DilutionNot Cited

Year 2014

Immunohistochemistry (Frozen) (1)

Journal of neuroimmunology

A role for brain-derived neurotrophic factor in B cell development.

Authors: Schuhmann B,Dietrich A,Sel S,Hahn C,Klingenspor M,Lommatzsch M,Gudermann T,Braun A,Renz H,Nockher WA

Species Not Applicable

Dilution Not Cited

Year 2005

Immunocytochemistry (1)

Proceedings of the National Academy of Sciences of the United States of America

miR-150, a microRNA expressed in mature B and T cells, blocks early B cell development when expressed prematurely.

"15-0452 was used in Immunofluorescence to study how miR-150 can down-regulate mRNAs important for B cell function, and how it can block further B cell development when expressed prematurely."

Authors: Zhou B, Wang S, Mayr C, Bartel DP, Lodish HF

Species Mouse

Dilution Not Cited

Year 2007

Flow Cytometry (86)

Frontiers in immunology

Myeloid Cell CK2 Regulates Inflammation and Resistance to Bacterial Infection.

"Published figure using CD45R (B220) monoclonal antibody (Product # 15-0452-82) in Flow Cytometry" Authors: Larson SR,Bortell N,Illies A,Crisler WJ,Matsuda JL,Lenz LL

Species Not Applicable

Dilution Not Cited

Year 2021

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More applications with references on thermofisher.com

Misc (1)

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