CD45R (B220) Monoclonal Antibody (RA3-6B2), Super Bright 645, eBioscience™

| Product Details | |
|--------------------------------|---|
| Size | 100 µg |
| Species Reactivity | Human, Mouse |
| Published Species | Mouse |
| Host/Isotype | Rat / IgG2a, kappa |
| Recommended Isotype Control | Rat IgG2a kappa Isotype Control (eBR2a), Super Bright 645, eBioscience™ |
| Class | Monoclonal |
| Туре | Antibody |
| Clone | RA3-6B2 |
| Conjugate | Super Bright 645 |
| Form | Liquid |
| Concentration | 0.2 mg/mL |
| Purification | Affinity chromatography |
| Storage buffer | PBS, pH 7.2, with BSA |
| Contains | 0.09% sodium azide |
| Storage conditions | 4° C, store in dark, DO NOT FREEZE! |
| RRID | AB_2662431 |

| Applications | Tested Dilution | Publications |
|----------------------------|-----------------|----------------|
| Immunohistochemistry (IHC) | - | 6 Publications |
| Flow Cytometry (Flow) | 0.5 µg/test | 5 Publications |

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 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 μ g per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Super Bright 645 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 645 nm. We recommend using a 660/20 bandpass filter. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright

Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer for more information.

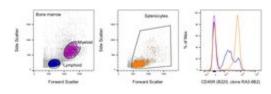
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL of cell sample + 100 µL of 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: 405 nm; Emission: 645 nm; Laser: Violet Laser

Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

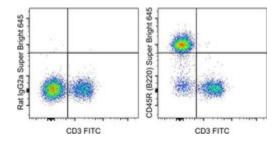
O Advanced Verification Data



CD45R (B220) Antibody (64-0452-82)

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), Super Bright 645, eBioscience™



CD45R (B220) Antibody (64-0452-82) in Flow

Staining of C57Bl/6 splenocytes with Anti-Mouse CD3 FITC (Product # 11-0032-82) and 0.25 µg of Rat IgG2a K Isotype Control Super Bright 645 (Product # 64-4321-82) (left) or 0.25 µg of Anti-Human/Mouse CD45R (B220) Super Bright 645 (right). Total viable cells were used for analysis.

View more figures on thermofisher.com

□ 11 References

Immunohistochemistry (6)

PloS one Species Not Applicable High-throughput analysis of lung immune cells in a combined murine model of agriculture dust-triggered airway inflammation with rheumatoid Dilution Not Cited arthritis. "Published figure using CD45R (B220) monoclonal antibody (Product # 64-0452-82) in Immunohistochemistry" Year 2021 Authors: Gaurav R, Mikuls TR, Thiele GM, Nelson AJ, Niu M, Guda C, Eudy JD, Barry AE, Wyatt TA, Romberger DJ, Duryee MJ, England BR, Poole JA Cell death & disease Species Not Applicable Hypoxia-induced miR-210 modulates the inflammatory response and fibrosis upon acute ischemia. Dilution Not Cited "Published figure using CD45R (B220) monoclonal antibody (Product # 64-0452-82) in Immunohistochemistry"

"Published figure using CD45R (B220) monoclonal antibody (Product # 64-0452-82) in Immunohistochemistry" Authors: Zaccagnini G,Greco S,Longo M,Maimone B,Voellenkle C,Fuschi P,Carrara M,Creo P,Maselli D,Tirone M, Mazzone M,Gaetano C,Spinetti G,Martelli F

View more IHC references on thermofisher.com

Year

2021

| Flow | Cytometry | (5) |
|------|-----------|-----|
|------|-----------|-----|

| Frontiers in immunology Myeloid Cell CK2 Regulates Inflammation and Resistance to Bacterial Infection. "Published figure using CD45R (B220) monoclonal antibody (Product # 64-0452-82) in Flow Cytometry" Authors: Larson SR,Bortell N,Illies A,Crisler WJ,Matsuda JL,Lenz LL | Species Not Applicable Dilution Not Cited Year 2021 | |
|---|--|--|
| Nature communications The lysophospholipase D enzyme Gdpd3 is required to maintain chronic myelogenous leukaemia stem cells. | Species Not Applicable Dilution | |
| "Published figure using CD45R (B220) monoclonal antibody (Product # 64-0452-82) in Flow Cytometry" | Not Cited | |
| Authors: Naka K,Ochiai R,Matsubara E,Kondo C,Yang KM,Hoshii T,Araki M,Araki K,Sotomaru Y,Sasaki K,Mitani K,Kim DW,Ooshima A,Kim SJ | Year 2020 | |

View more Flow references on thermofisher.com

More applications with references on thermofisher.com

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are varranted to operate or perform substantially in conformance with published Product specifications in effect at the time of a set of the hin the Production documentation, specifications and effect and as set of the inthe Product is outperformed to any one other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. No OTHER WARRANTES, EXPRESS OR IMPLED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTES OF MERCHANTABILITY, FITNESS FOR ANY PARTICLUAR PURPOSE, OR RON INFRINCEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-PORTING PRODUCTS SURING THE WARRANTES OF REPLACED FOR DEVELOP FOR CONCORTS UPURING THE WARRANTES OF REPLACED FOR DEVELOP FOR CONCORTS UPURING THE WARRANTES OF REPLACED FOR DEVELOP FOR CONCORTS UPURING THE WARRANTES OF REPLACED TO REPLACED FOR DEVELOP FOR CONCORTS UPURING THE WARRANTES OF REPLACED FOR DEVELOP FOR CONCORTS UPURING THE WARRANTES OF REPLACED FOR DEVELOP FOR REPLACED FOR DEVELOP FOR CONCORTS UPURING THE WARRANTES OF REPLACED FOR DEVELOP FOR REPLACED FOR DEVELOP FOR CONCORTS UPURING THE WARRANTES OF REPLACED FOR DEVELOP FOR REPLACED FOR DEVELOP FOR STAR ANY DERION IS UPURED ON REPLAR, REPLACEMENT OF ON REPLACED FOR DEVELOP FOR STAR ANY DERION IS UPURED ON REPLAR, REPLACED FOR DEVELOP FOR STAR AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. UNless otherwise expressly stated on the Product or in the documentation accompanying the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any