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.

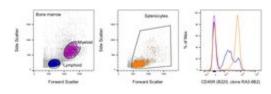
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Protect this vial and stained samples from light.

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.

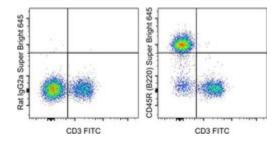
O Advanced Verification Data



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.

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□ 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

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Year

2021

Flow	Cytometry	(5)
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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	

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