

# CD45R (B220) Monoclonal Antibody (RA3-6B2), Super Bright™ 702, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), Super Bright™ 702, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	RA3-6B2
Conjugate	Super Bright™ 702
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_2744882

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	14 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	1 Publication
Flow Cytometry (Flow)	0.5 µg/test	13 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 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 may 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 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Super Bright 702 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 702 nm. We recommend using a 710/50 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.

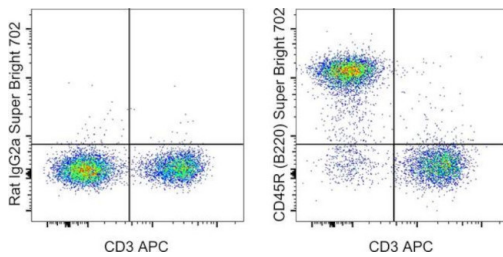
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100  $\mu$ L of cell sample + 100  $\mu$ L of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 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: 702 nm; Laser: Violet Laser

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

## Product Images For CD45R (B220) Monoclonal Antibody (RA3-6B2), Super Bright™ 702, eBioscience™



### CD45R (B220) Antibody (67-0452-82) in Flow

BALB/c mouse bone marrow cells were stained with CD3 Monoclonal Antibody, APC (Product # 17-0031-82) and 0.25  $\mu$ g of Rat IgG2a kappa Isotype Control, Super Bright 702 (Product # 67-4321-82) (left) or 0.25  $\mu$ g of CD45R (B220) Monoclonal Antibody, Super Bright 702 (right). Cells in the lymphocyte gate were used for analysis.

[View more figures on thermofisher.com](https://www.thermofisher.com)

## 29 References

### Immunohistochemistry (14)

Frontiers in immunology

#### Role of CXCL5 in Regulating Chemotaxis of Innate and Adaptive Leukocytes in Infected Lungs Upon Pulmonary Influenza Infection.

"Published figure using CD45R (B220) monoclonal antibody (Product # 67-0452-82) in Immunohistochemistry"

Authors: Guo L, Li N, Yang Z, Li H, Zheng H, Yang J, Chen Y, Zhao X, Mei J, Shi H, Worthen GS, Liu L

Year  
2022

Cancers

#### Targeting Ovarian Carcinoma with TSP-1:CD47 Antagonist TAX2 Activates Anti-Tumor Immunity.

"Published figure using CD45R (B220) monoclonal antibody (Product # 67-0452-82) in Immunohistochemistry"

Authors: Jeanne A, Sarazin T, Charlé M, Moali C, Fichel C, Boulagnon-Rombi C, Callewaert M, Andry MC, Diesis E, Delolme F, Rioult D, Dedieu S

Year  
2021

[View more IHC references on thermofisher.com](#)

### Immunohistochemistry (Paraffin) (1)

Pathogens (Basel, Switzerland)

#### Pituitary Adenylate Cyclase-Activating Polypeptide Alleviates Intestinal, Extra-Intestinal and Systemic Inflammatory Responses during Acute *Campylobacter jejuni*-induced Enterocolitis in Mice.

"Published figure using CD45R (B220) monoclonal antibody (Product # 67-0452-82) in Immunohistochemistry (Paraffin)"

Authors: Heimesaat MM, Mousavi S, Kløve S, Genger C, Weschka D, Tamas A, Reglodi D, Bereswill S

Year  
2020

### Flow Cytometry (13)

JCI insight

#### Transient expansion and myofibroblast conversion of adipogenic lineage precursors mediate bone marrow repair after radiation.

"Published figure using CD45R (B220) monoclonal antibody (Product # 67-0452-82) in Flow Cytometry"

Authors: Zhong L, Yao L, Holdreith N, Yu W, Gui T, Miao Z, Elkaim Y, Li M, Gong Y, Pacifici M, Maity A, Busch TM, Joeng KS, Cengel K, Seale P, Tong W, Qin L

Year  
2022

[View more Flow references on thermofisher.com](#)

### More applications with references on thermofisher.com

### Misc (1)

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