

# CD45R (B220) Monoclonal Antibody (RA3-6B2), PerCP-Cyanine5.5, 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), PerCP-Cyanine5.5, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	RA3-6B2
Conjugate	PerCP-Cyanine5.5
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_1107006

Applications	Tested Dilution	Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Flow Cytometry (Flow)	0.5 µg/test	102 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 I{Ipr/IprI} mutant mouse also express this antigen.

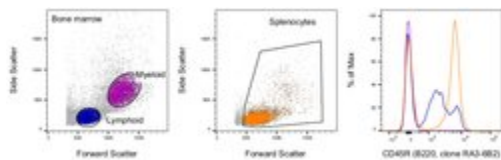
Applications Reported: This RA3-6B2 antibody has been reported for use in flow cytometric analysis.

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 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.

Excitation: 488 nm; Emission: 695 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

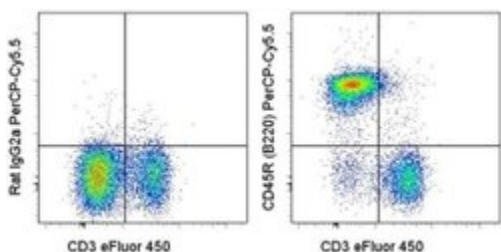
## ✓ Advanced Verification Data



### CD45R (B220) Antibody (45-0452-82)

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), PerCP-Cyanine5.5, eBioscience™



### CD45R (B220) Antibody (45-0452-82) in Flow

Staining of C57Bl/6 splenocytes with Anti-Mouse CD3 eFluor® 450 (Product # 48-0032-82) and 0.25 µg of Rat IgG2a K Isotype Control PerCP-Cyanine5-5 (Product # 45-4321-80) (left) or 0.25 µg of Anti-Human/Mouse CD45R (B220) PerCP-Cyanine5-5 (right). Cells in the lymphocyte gate were used for analysis.

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## Immunohistochemistry (Paraffin) (1)

American journal of transplantation : official journal of the American Society of Transplantation and the American Society of Transplant Surgeons

### Depletion of foxp3(+) T cells abrogates tolerance of skin and heart allografts in murine mixed chimeras without the loss of mixed chimerism.

"45-0452 was used in Immunohistochemistry on paraffin embedded tissues-immunofluorescence to investigate the relative contribution of central and peripheral mechanisms to the generation of skin and heart allograft tolerance in murine mixed chimeras."

Authors: Shinoda K,Akiyoshi T,Chase CM,Farkash EA,Ndishabandi DK,Raczek CM,Sebastian DP,Pelle PD,Russell PS,Madsen JC,Colvin RB,Alessandrini A

**Species**  
Mouse

**Dilution**  
Not 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

## Flow Cytometry (102)

Frontiers in immunology

### Myeloid Cell CK2 Regulates Inflammation and Resistance to Bacterial Infection.

"Published figure using CD45R (B220) monoclonal antibody (Product # 45-0452-82) in Flow Cytometry"

Authors: Larson SR,Bortell N,Illies A,Crisler WJ,Matsuda JL,Lenz LL

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2021

Frontiers in immunology

### Shp1 Loss Enhances Macrophage Effector Function and Promotes Anti-Tumor Immunity.

"45-0452 was used in Flow cytometry/Cell sorting to suggest that targeting Shp1 may be an attractive therapeutic strategy for boosting the immune response to cancer via a mechanism involving both innate and adaptive leukocytes."

Authors: Myers DR,Abram CL,Wildes D,Belwafa A,Welsh AMN,Schulze CJ,Choy TJ,Nguyen T,Omaque N,Hu Y,Singh M,Hansen R,Goldsmith MA,Quintana E,Smith JAM,Lowell CA

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2021

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

## More applications with references on thermofisher.com

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