

CD45R (B220) Monoclonal Antibody (RA3-6B2), PE, 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, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	RA3-6B2
Conjugate	PE
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_465671

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	2 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	-	2 Publications
Flow Cytometry (Flow)	0.5 µg/test	148 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.

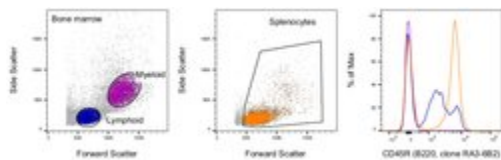
Applications Reported: The RA3-6B2 antibody has been reported for use in flow cytometric analysis.

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 0.5 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Excitation: 488-561 nm; Emission: 578 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

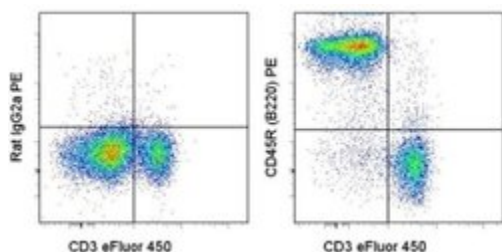
✓ Advanced Verification Data



CD45R (B220) Antibody (12-0452-82)

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, eBioscience™



CD45R (B220) Antibody (12-0452-82) 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 PE (Product # 12-4321-80) (left) or 0.25 µg of Anti-Human/Mouse CD45R (B220) PE (Product # 12-0452-82) (right). Total viable cells were used for analysis.

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

Immunohistochemistry (2)

Journal of the American Society of Nephrology : JASN

Sphingosine 1-Phosphate Receptor 3-Deficient Dendritic Cells Modulate Splenic Responses to Ischemia-Reperfusion Injury.

"12-0452 was used in Immunohistochemistry to test the therapeutic advantage of S1pr32/2 bone marrow-derived dendritic cell transfers in kidney ischemia-reperfusion injury."

Authors: Bajwa A,Huang L,Kurmaeva E,Gigliotti JC,Ye H,Miller J,Rosin DL,Lobo PI,Okusa MD

Species
Mouse

Dilution
Not Cited

Year
2016

European journal of immunology

The cellular niche of Listeria monocytogenes infection changes rapidly in the spleen.

"12-0452 was used in Immunohistochemistry to illustrate the changeable nature of the cellular niche of Listeria monocytogenes."

Authors: Aoshi T,Carrero JA,Konjufca V,Koide Y,Unanue ER,Miller MJ

Species
Mouse

Dilution
Not Cited

Year
2009

Immunohistochemistry (Paraffin) (1)

Cell research

The RNA-binding protein ROD1/PTBP3 cotranscriptionally defines AID-loading sites to mediate antibody class switch in mammalian genomes.

"12-0452 was used in Immunohistochemistry on paraffin embedded tissues-immunofluorescence to identify an RNA-binding protein that is both required and sufficient to define activation-induced cytidine deaminase-binding sites genome-wide in activated B cells."

Authors: Chen J,Cai Z,Bai M,Yu X,Zhang C,Cao C,Hu X,Wang L,Su R,Wang D,Wang L,Yao Y,Ye R,Hou B,Yu Y,Yu S,Li J,Xue Y

Species
Mouse

Dilution
1:50

Year
2018

Immunohistochemistry (Frozen) (2)

Journal of immunology (Baltimore, Md. : 1950)

4-1BB functions as a survival factor in dendritic cells.

"12-0452 was used in Immunofluorescence on frozen tissues to investigate the function of CD137 on dendritic cells, showing that it functions as a survival factor."

Authors: Choi BK,Kim YH,Kwon PM,Lee SC,Kang SW,Kim MS,Lee MJ,Kwon BS

Species
Mouse

Dilution
Not Cited

Year
2009

More applications with references on thermofisher.com

Flow (148)

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