

CD45R (B220) Monoclonal Antibody (RA3-6B2), PE, eBioscience™

Product Details	
Size	100 µg
Species	Human, Mouse
Published Species	Artificial Control, Fish, Mouse, Human
Expression System	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
Flow Cytometry (Flow)	0.5 µg/test	133 Publications
Immunofluorescence (IF)	-	2 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	2 Publications
Immunohistochemistry (IHC)	-	2 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	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.

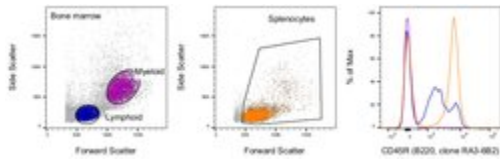
Applications Reported: The RA3-6B2 antibody has been reported for use in flow cytometric analysis.

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.

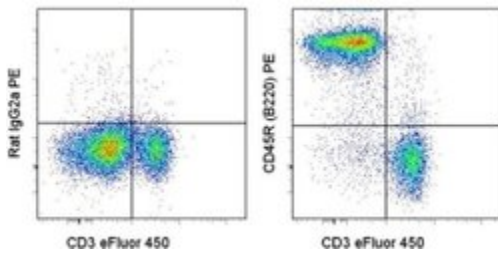
Advanced Verification Data



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 (right). Total viable cells were used for analysis.

View more figures on thermofisher.com

Flow Cytometry (133)

Oncoimmunology

The Interleukin (IL)-1R1 pathway is a critical negative regulator of PyMT-mediated mammary tumorigenesis and pulmonary metastasis.

"Published figure using CD45R (B220) monoclonal antibody (Product # 12-0452-82) in Flow Cytometry"

Authors: Dagenais M, Dupaul-Chicoine J, Douglas T, Champagne C, Morizot A, Saleh M

Species
Not Applicable

Dilution
Not Cited

Year
2020

Frontiers in immunology

Tp12 Protects Against Fulminant Hepatitis Through Mobilization of Myeloid-Derived Suppressor Cells.

"Published figure using CD45R (B220) monoclonal antibody (Product # 12-0452-82) in Flow Cytometry"

Authors: Xu J, Pei S, Wang Y, Liu J, Qian Y, Huang M, Zhang Y, Xiao Y

Species
Not Applicable

Dilution
Not Cited

Year
2020

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

Immunofluorescence (2)

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

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

[IHC \(P\) \(1\)](#)

[IHC \(2\)](#)

[IHC \(F\) \(2\)](#)

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