

# CD45R (B220) Monoclonal Antibody (RA3-6B2), Alexa Fluor™ 700, 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), Alexa Fluor™ 700, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	RA3-6B2
Conjugate	Alexa Fluor™ 700
Excitation/Emission Max	696/719 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_891458

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	29 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	2 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	3 Publications
Immunocytochemistry (ICC/IF)	-	6 Publications
Flow Cytometry (Flow)	0.25 µg/test	83 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 can be used at less than or equal to 0.25 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.

Alexa Fluor® 700 emits at 723 nm and can be excited with the red laser (633 nm). Most instruments will require a 685 LP mirror and 710/20 filter. Please make sure that your instrument is capable of detecting this fluorochrome.

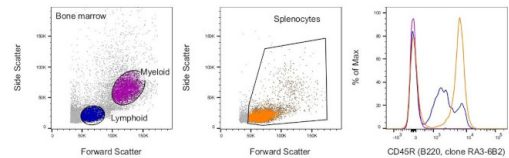
Excitation: 633-647 nm; Emission: 723 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

**Product Images For CD45R (B220) Monoclonal Antibody (RA3-6B2), Alexa Fluor™ 700, eBioscience™**

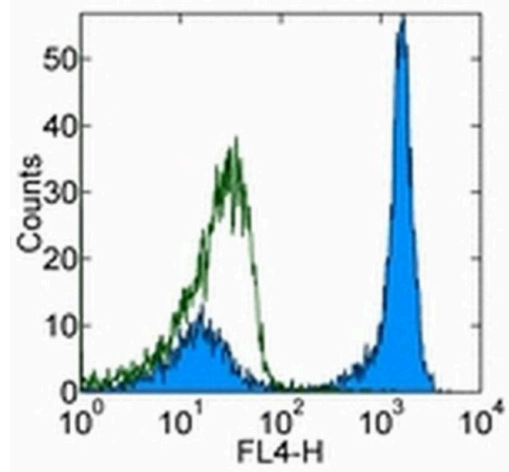
**CD45R (B220) Antibody (56-0452-82)**

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. {RE}



**CD45R (B220) Antibody (56-0452-82) in Flow**

Staining of BALB/c splenocytes with 0.125 µg of Rat IgG2a K Isotype Control Alexa Fluor® 700 (Product # 56-4321-80) (open histogram) or 0.125 µg of Anti-Human/Mouse CD45R (B220) Alexa Fluor® 700 (filled histogram). Cells in the lymphocyte gate were used for analysis.



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Immunohistochemistry (29)

Frontiers in immunology	Year 2022
<b>Role of CXCL5 in Regulating Chemotaxis of Innate and Adaptive Leukocytes in Infected Lungs Upon Pulmonary Influenza Infection.</b>	
"Published figure using CD45R (B220) monoclonal antibody (Product # 56-0452-82) 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	
Cancers	Year 2021
<b>Targeting Ovarian Carcinoma with TSP-1:CD47 Antagonist TAX2 Activates Anti-Tumor Immunity.</b>	
"Published figure using CD45R (B220) monoclonal antibody (Product # 56-0452-82) 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	

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

Immunohistochemistry (Paraffin) (2)

Pathogens (Basel, Switzerland)	Year 2020
<b>Pituitary Adenylate Cyclase-Activating Polypeptide Alleviates Intestinal, Extra-Intestinal and Systemic Inflammatory Responses during Acute <i>Campylobacter jejuni</i>-induced Enterocolitis in Mice.</b>	
"Published figure using CD45R (B220) monoclonal antibody (Product # 56-0452-82) in Immunohistochemistry (Paraffin)"	
Authors: Heimesaat MM,Mousavi S,Kløve S,Genger C,Weschka D,Tamas A,Reglodi D,Bereswill S	
European journal of microbiology & immunology	Year 2018
<b>Anti-inflammatory Effects of the Octapeptide NAP in Human Microbiota-Associated Mice Suffering from Subacute Ileitis.</b>	
"Published figure using CD45R (B220) monoclonal antibody (Product # 56-0452-82) in Immunohistochemistry (Paraffin)"	
Authors: Escher U,Giladi E,Dunay IR,Bereswill S,Gozes I,Heimesaat MM	

More applications with references on thermofisher.com

- IHC (F) (3)
- ICC/IF (6)
- Flow (83)
- Misc (1)

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