

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 10⁵ to 10⁸ 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.

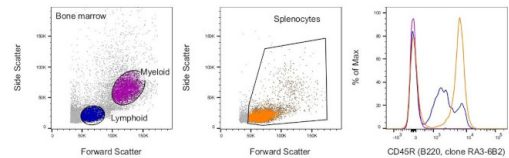
Excitation: 633-647 nm; Emission: 723 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

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

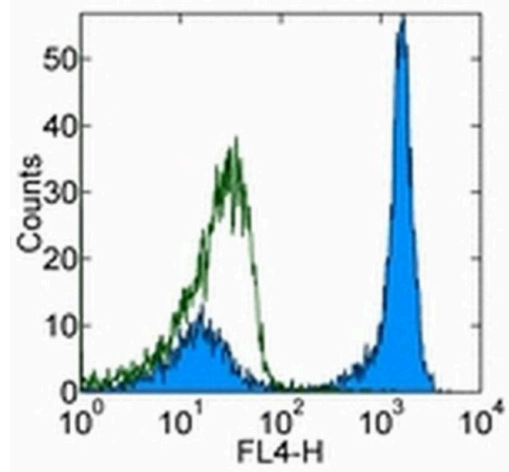
CD45R (B220) Antibody (56-0452-82)

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
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 # 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
Targeting Ovarian Carcinoma with TSP-1:CD47 Antagonist TAX2 Activates Anti-Tumor Immunity.	
"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,Rioul D,Dedieu S	

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

Immunohistochemistry (Paraffin) (2)

Pathogens (Basel, Switzerland)	Year 2020
Pituitary Adenylate Cyclase-Activating Polypeptide Alleviates Intestinal, Extra-Intestinal and Systemic Inflammatory Responses during Acute <i>Campylobacter jejuni</i>-induced Enterocolitis in Mice.	
"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
Anti-inflammatory Effects of the Octapeptide NAP in Human Microbiota-Associated Mice Suffering from Subacute Ileitis.	
"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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