

# CD45R (B220) Monoclonal Antibody (RA3-6B2), eFluor™ 615, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse
Published Species	Mouse, Human
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), eFluor™ 615, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	RA3-6B2
Conjugate	eFluor™ 615
Excitation/Emission Max	595/614 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_10852702

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	29 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	2 Publications
Immunohistochemistry (Frozen) (IHC (F))	1 µg/mL	2 Publications
Immunocytochemistry (ICC/IF)	Assay-Dependent	6 Publications
Flow Cytometry (Flow)	-	2 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 immunohistochemical staining of frozen tissue sections (IHC-F), and immunocytochemistry.

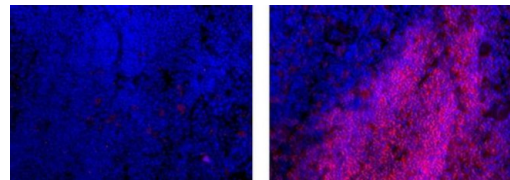
**Applications Tested:** This RA3-6B2 antibody has been tested by immunohistochemistry on frozen mouse spleen at less than or equal to 1 µg/mL. It is recommended that this antibody be carefully titrated for optimal performance in the assay of interest. This product has not been validated for flow cytometric analysis.

Filter Recommendation: When using this eFluor® 615 antibody conjugate, we recommend a filter that will capture the 615 emission wavelength (for example, Excitation 560/55, 585LP, Emission 645/75). A standard Alexa Fluor® 594 filter is acceptable.

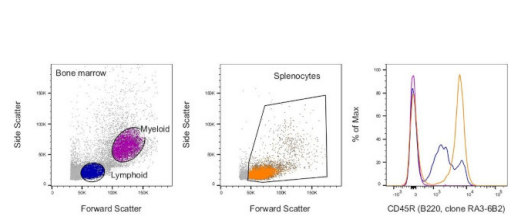
Excitation: 595 nm; Emission: 615 nm.

Filtration: 0.2 µm post-manufacturing filtered.

**Product Images For CD45R (B220) Monoclonal Antibody (RA3-6B2), eFluor™ 615, eBioscience™**



**CD45R (B220) Antibody (42-0452-82) in IHC (F)**  
Immunohistochemistry on frozen mouse spleen using 1 µg/mL Rat IgG2a K Isotype Control eFluor® 615 (left) or 1 µg/mL Anti-Human/Mouse CD45R (B220) eFluor® 615 (right). Nuclei are counterstained with DAPI.



**CD45R (B220) Antibody (42-0452-82)**  
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}

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

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 # 42-0452-82) 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 # 42-0452-82) 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
<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 # 42-0452-82) 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 # 42-0452-82) 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) (2)
- ICC/IF (6)
- Flow (2)
- Misc (1)

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON-INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (i) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (ii) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (iii) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (iv) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.