

# 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
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_10852702

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	19 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	1 µg/mL	1 Publication
Immunocytochemistry (ICC/IF)	Assay-Dependent	4 Publications
Flow Cytometry (Flow)	-	2 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:** This RA3-6B2 antibody has been reported for use in immunohistochemical staining of frozen tissue sections (IHC-F), and immunocytochemistry.

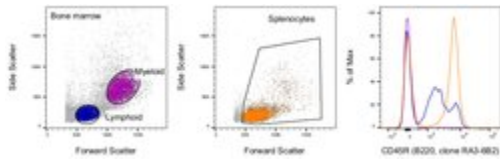
**Applications Tested:** This RA3-6B2 antibody has been tested by immunohistochemistry on frozen mouse spleen at less than or equal to 1 µg/mL. It is recommended that this antibody be carefully titrated for optimal performance in the assay of interest. This product has not been validated for flow cytometric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

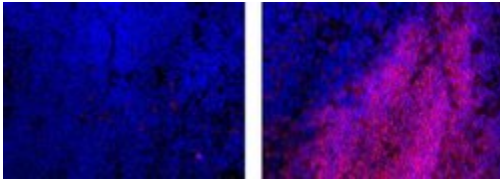
## Advanced Verification Data



### 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. Relative expression validation info.

## 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.

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## Immunohistochemistry (19)

PloS one

### High-throughput analysis of lung immune cells in a combined murine model of agriculture dust-triggered airway inflammation with rheumatoid arthritis.

"Published figure using CD45R (B220) monoclonal antibody (Product # 42-0452-82) in Immunohistochemistry"

Authors: Gaurav R, Mikuls TR, Thiele GM, Nelson AJ, Niu M, Guda C, Eudy JD, Barry AE, Wyatt TA, Romberger DJ, Duryee MJ, England BR, Poole JA

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2021

Cell death & disease

### Hypoxia-induced miR-210 modulates the inflammatory response and fibrosis upon acute ischemia.

"Published figure using CD45R (B220) monoclonal antibody (Product # 42-0452-82) in Immunohistochemistry"

Authors: Zaccagnini G, Greco S, Longo M, Maimone B, Voellenkle C, Fuschi P, Carrara M, Creo P, Maselli D, Tirone M, Mazzone M, Gaetano C, Spinetti G, Martelli F

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2021

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

## Immunohistochemistry (Paraffin) (1)

European journal of microbiology & immunology

### Anti-inflammatory Effects of the Octapeptide NAP in Human Microbiota-Associated Mice Suffering from Subacute Ileitis.

"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

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2018

## Immunohistochemistry (Frozen) (1)

Journal of neuroimmunology

### A role for brain-derived neurotrophic factor in B cell development.

Authors: Schuhmann B, Dietrich A, Sel S, Hahn C, Klingenspor M, Lommatzsch M, Gudermann T, Braun A, Renz H, Nockher WA

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2005

## More applications with references on thermofisher.com

ICC/IF (4)   Flow (2)

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