

# CD45R (B220) Monoclonal Antibody (RA3-6B2), Alexa Fluor 488, eBioscience™

<b>Product Details</b>	
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 488, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	RA3-6B2
Conjugate	Alexa Fluor® 488
Form	Liquid
Concentration	0.5 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_469907

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	20 Publications
Immunohistochemistry (Paraffin) (IHC (P))	20 μg/mL	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	20 μg/mL	1 Publication
Immunocytochemistry (ICC/IF)	-	6 Publications
Flow Cytometry (Flow)	0.5 µg/test	48 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, flow cytometric analysis, and immunohistochemical staining of formalin-fixed paraffin embedded tissue sections.

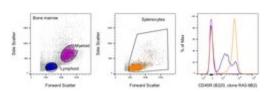
Applications Tested: This RA3-6B2 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. This RA3-6B2

antibody has also been tested by immunohistochemistry of frozen tissue sections and can be used at less than or equal to 20 µg/mL. The RA3-6B2 antibody has been tested by immunohistochemistry of formalin-fixed paraffin embedded tissue sections using low pH antigen retrieval and can be used at less than or equal to 20 µg/mL. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Excitation: 488 nm; Emission: 519 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

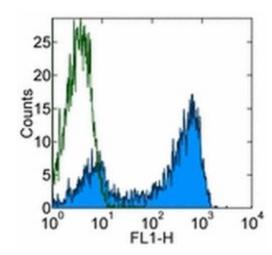
# Advanced Verification Data



#### CD45R (B220) Antibody (53-0452-82)

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), Alexa Fluor 488, eBioscience™



#### CD45R (B220) Antibody (53-0452-82) in Flow

Staining of BALB/c splenocytes with staining buffer (autofluorescence) (open histogram) or 0.25 µg of Anti-Human/Mouse CD45R (B220) Alexa Fluor® 488 (filled histogram). Cells in the lymphocyte gate were used for analysis.

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#### □ 76 References

# Immunohistochemistry (20)

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 # 53-0452-82) 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 # 53-0452-82) 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

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# 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 # 53-0452-82) 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

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ICC/IF (6)

Flow (48)

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