

CD45R (B220) Monoclonal Antibody (RA3-6B2), Biotin, 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), Biotin, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	RA3-6B2
Conjugate	Biotin
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_466449

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	21 Publications
Immunohistochemistry (Paraffin) (IHC (P))	Assay-Dependent	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	Assay-Dependent	3 Publications
Immunocytochemistry (ICC/IF)	-	4 Publications
Flow Cytometry (Flow)	0.125 µg/test	119 Publications
Functional Assay (FN)	-	1 Publication
Affinity Purification (AP)	-	1 Publication
Miscellaneous PubMed (Misc)	-	8 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.

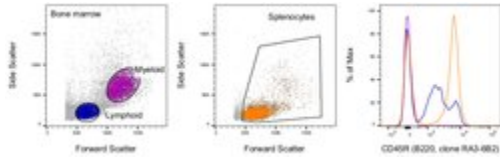
Applications Reported: This RA3-6B2 antibody has been reported for use in flow cytometric analysis, immunohistochemical

staining of formalin-fixed paraffin embedded and frozen tissue sections.

Applications Tested: The RA3-6B2 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.125 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.

Filtration: 0.2 µm post-manufacturing filtered.

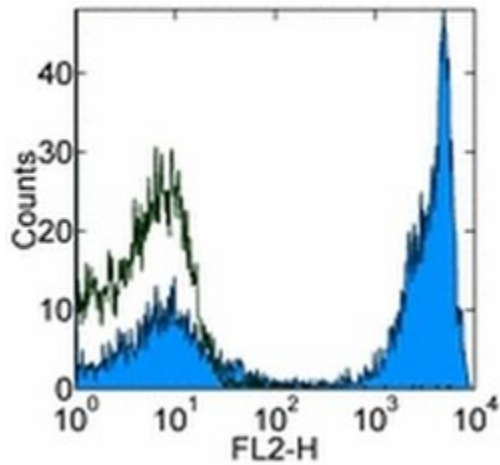
Advanced Verification Data



CD45R (B220) Antibody (13-0452-82)

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), Biotin, eBioscience™



CD45R (B220) Antibody (13-0452-82) in Flow

Staining of BALB/c splenocytes with 0.06 µg of Rat IgG2a kappa Isotype Control Biotin (Product # 13-4321-82) (open histogram) or 0.06 µg of Anti-Human/Mouse CD45R (B220) Biotin (filled histogram) followed by Streptavidin PE (Product # 12-4317-87). Total viable cells were used for analysis.

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

Immunohistochemistry (21)

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 # 13-0452-82) in Immunohistochemistry"

Authors: Gaurav R,Mikulis 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 # 13-0452-82) in Immunohistochemistry"

Authors: Zaccagnini G,Grcco 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 # 13-0452-82) 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) (3)

Journal of immunology (Baltimore, Md. : 1950)

Focal adhesion kinase regulates the localization and retention of pro-B cells in bone marrow microenvironments.

"13-0452 was used in Immunofluorescence in immunohistochemistry on frozen tissues to study the importance of focal adhesion kinase in regulating pro-B cell homeostasis and maintenance of their spatial distribution in bone marrow niches."

Authors: Park SY,Wolfram P,Canty K,Harley B,Nombela-Arrieta C,Pivarnik G,Manis J,Beggs HE,Silberstein LE

Species
Mouse

Dilution
Not Cited

Year
2013

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

More applications with references on thermofisher.com

ICC/IF (4)

Flow (119)

FN (1)

AP (1)

Misc (8)

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