

CD45R (B220) Monoclonal Antibody (RA3-6B2), eFluor 570, eBioscience™

Product Details	
Size	25 µg
Species Reactivity	Human, Mouse
Published Species	Mouse, Human
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), eFluor 570, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	RA3-6B2
Conjugate	eFluor® 570
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_2573598

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	18 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1 µg/mL	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	1 µg/mL	2 Publications
Immunocytochemistry (ICC/IF)	Assay-Dependent	6 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.

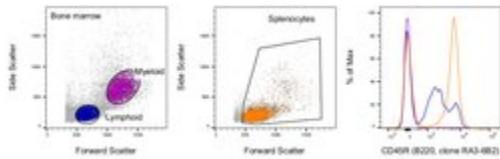
Applications Reported: This RA3-6B2 antibody has been reported for use in microscopy, immunocytochemistry, and immunohistochemical staining of formalin-fixed paraffin embedded or frozen tissue sections.

Applications Tested: This RA3-6B2 antibody has been tested by immunohistochemistry of frozen mouse spleen and can be used at less than or equal to 1 µg/mL. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Filter Recommendation: When using this eFluor® 570 antibody conjugate, we recommend a filter that will capture the 570 emission wavelength (for example, Excitation 545/25, 565LP, Emission 605/70). A standard Alexa Fluor® 555 or TRITC filter is acceptable.

Excitation: 555 nm; Emission: 570 nm

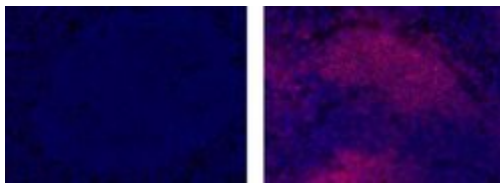
Advanced Verification Data



CD45R (B220) Antibody (41-0452-80)

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 570, eBioscience™



CD45R (B220) Antibody (41-0452-80) in IHC (F)

Immunohistochemistry of frozen mouse spleen using 1 µg/mL of Rat IgG2a K Isotype Control eFluor® 570 (left) or 1 µg/mL of Anti-Human/Mouse CD45R (B220) eFluor® 570 (right). Nuclei are stained with DAPI.

View more figures on thermofisher.com

Immunohistochemistry (18)

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 # 41-0452-80) 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 # 41-0452-80) 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 # 41-0452-80) 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) (2)

Immunity & ageing : I & A

The immunosenescence-related gene Zizimin2 is associated with early bone marrow B cell development and marginal zone B cell formation.

"41-0452 was used in immunohistochemistry on frozen tissues to show the immunosenescence-related gene Zizimin2 is associated with early bone marrow B cell development and marginal zone B cell formation."

Authors: Matsuda T,Yanase S,Takaoka A,Maruyama M

Species
Mouse

Dilution
1:200

Year
2015

More applications with references on thermofisher.com

ICC/IF (6) Flow (2)

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