

CD45R (B220) Monoclonal Antibody (RA3-6B2), PE-Cyanine5.5, 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), PE-Cyanine5.5, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	RA3-6B2
Conjugate	PE-Cyanine5.5
Excitation/Emission Max	564/692 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_469721

Applications	Tested Dilution	Publications
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Flow Cytometry (Flow)	0.125 µg/test	61 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.

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 0.125 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.

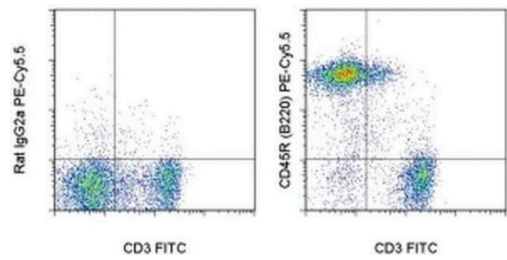
Light sensitivity: This tandem dye is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency /compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific

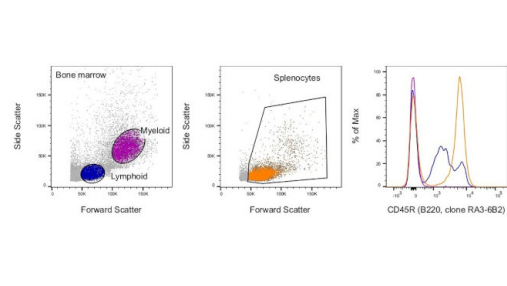
performance should be determined empirically.

Excitation: 488-561 nm; Emission: 695 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser

Product Images For CD45R (B220) Monoclonal Antibody (RA3-6B2), PE-Cyanine5.5, eBioscience™



CD45R (B220) Antibody (35-0452-82) in Flow
Staining of BALB/c splenocytes with Anti-Mouse CD3e FITC (Product # 11-0031-82) and 0.06 µg of Rat IgG2a K Isotype Control PE-Cyanine5-5 (Product # 35-4321-82) (left) or 0.06 µg of Anti-Human/Mouse CD45R (B220) PE-Cyanine5-5 (right). Total viable cells were used for analysis.



CD45R (B220) Antibody (35-0452-82)
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}

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Immunohistochemistry (Frozen) (1)

<p>Journal of neuroimmunology</p> <p>A role for brain-derived neurotrophic factor in B cell development.</p> <p>Authors: Schuhmann B,Dietrich A,Sel S,Hahn C,Klingenspor M,Lommatzsch M,Gudermann T,Braun A,Renz H,Nockher WA</p>	<p>Year 2005</p>
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Flow Cytometry (61)

<p>Cell death & disease</p> <p>Lenvatinib for effectively treating antiangiogenic drug-resistant nasopharyngeal carcinoma.</p> <p>"Published figure using CD45R (B220) monoclonal antibody (Product # 35-0452-82) in Flow Cytometry"</p> <p>Authors: Sun Q,Wang Y,Ji H,Sun X,Xie S,Chen L,Li S,Zeng W,Chen R,Tang Q,Zuo J,Hou L,Hosaka K,Lu Y,Liu Y,Ye Y, Yang Y</p>	<p>Year 2022</p>
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<p>JCI insight</p> <p>Transient expansion and myofibroblast conversion of adipogenic lineage precursors mediate bone marrow repair after radiation.</p> <p>"Published figure using CD45R (B220) monoclonal antibody (Product # 35-0452-82) in Flow Cytometry"</p> <p>Authors: Zhong L,Yao L,Holdreith N,Yu W,Gui T,Miao Z,Elkaim Y,Li M,Gong Y,Pacifici M,Maity A,Busch TM,Joeng KS, Cengel K,Seale P,Tong W,Qin L</p>	<p>Year 2022</p>
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