CD45R (B220) Monoclonal Antibody (RA3-6B2), APC-eFluor™ 780, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse
Published Species	Bacteria, Fish, Mouse, Human
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), APC-eFluor™ 780, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	RA3-6B2
Conjugate	APC-eFluor™ 780
Excitation/Emission Max	756/785 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_1518810

Applications	Tested Dilution	Publications
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Flow Cytometry (Flow)	0.5 µg/test	137 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 0.5 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 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

APC-eFluor 780 emits at 780 nm and is excited with the Red laser (633 nm). Please make sure that your instrument is capable of detecting this fluorochome.

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

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 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: 633-647 nm; Emission: 780 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD45R (B220) Monoclonal Antibody (RA3-6B2), APC-eFluor™ 780, eBioscience™

CD45R (B220) Antibody (47-0452-82)
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}

CD45R (B220) Antibody (47-0452-82) in Flow
Staining of C57BL/6 splenocytes with Anti-Mouse CD3e FITC (Product # 11-0031-82) and 0.25 µg of Rat IgG2a kappa Isotype Control APC-eFluor® 780 (Product # 47-4321-82) (left) or 0.25 µg of Anti-Human/Mouse CD45R (B220) APC-eFluor® 780 (right). Total viable cells were used for analysis.

View more figures on thermofisher.cn

138 References

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

Year
2005

Flow Cytometry (137)

The Journal of clinical investigation

VHL loss reprograms the immune landscape to promote an inflammatory myeloid microenvironment in renal tumorigenesis.

"Published figure using CD45R (B220) monoclonal antibody (Product # 47-0452-82) in Flow Cytometry"

Authors: Wolf MM,Madden MZ,Arner EN,Bader JE,Ye X,Vlach L,Tigue ML,Landis MD,Jonker PB,Hatem Z,Steiner KK,Gaines DK,Reinfeld BI,Hathaway ES,Xin F,Tantawy MN,Haake SM,Jonasch E,Muir A,Weiss VL,Beckermann KE,Rathmell WK,Rathmell JC

Year
2024

Frontiers in immunology

T cell specific deletion of Casitas B lineage lymphoma-b reduces atherosclerosis, but increases plaque T cell infiltration and systemic T cell activation.

"Published figure using CD45R (B220) monoclonal antibody (Product # 47-0452-82) in Flow Cytometry"

Authors: Vos WG,van Os BW,den Toom M,Beckers L,van Roomen CPAA,van Tiel CM,Mohapatra BC,Band H,Nitz K,Weber C,Atzler D,de Winther MPJ,Bosmans LA,Lutgens E,Seijkens TTP

Year
2024

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More applications with references on thermofisher.cn

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