CD45R (B220) Monoclonal Antibody (RA3-6B2), PerCP-eFluor 710, 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), PerCP-eFluor 710, eBioscience™
Class	Monoclonal
Туре	Antibody
Clone	RA3-6B2
Conjugate	PerCP-eFluor™ 710
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_10717389

Applications	Tested Dilution	Publications
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Flow Cytometry (Flow)	0.5 µg/test	42 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 I{lpr/lprl} 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 μ g per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. 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.

PerCP-eFluor® 710 emits at 710 nm and is excited with the blue laser (488 nm); it can be used in place of PerCP-Cyanine5.5. We recommend using a 710/50 bandpass filter, however, the 695/40 bandpass filter is an acceptable alternative. Please make sure that your instrument is capable of detecting this fluorochrome.

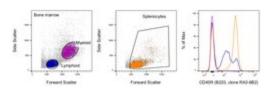
1

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 nm; Emission: 710 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

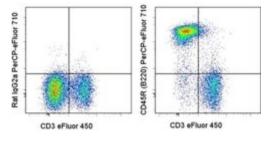
O Advanced Verification Data



CD45R (B220) Antibody (46-0452-82)

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), PerCP-eFluor 710, eBioscience™



CD45R (B220) Antibody (46-0452-82) in Flow

Staining of C57BI/6 splenocytes with Anti-Mouse CD3 eFluor® 450 (Product # 48-0032-82) and 0.25 µg of Rat IgG2a K Isotype Control PerCP-eFluor® 710 (Product # 46-4321-82) (left) or 0.25 µg of Anti-Human/Mouse CD45R (B220) PerCP-eFluor® 710 (right). Total viable cells were used for analysis.

View more figures on thermofisher.com

43 References

Immunohistochemistry (Frozen) (1)

Journal of neuroimmunology	Species
A role for brain-derived neurotrophic factor in B cell development.	Not Applicable
Authors: Schuhmann B,Dietrich A,Sel S,Hahn C,Klingenspor M,Lommatzsch M,Gudermann T,Braun A,Renz H,Nockher WA	Dilution Not Cited
	Year 2005
low Cytometry (42)	
Frontiers in immunology	Species
Myeloid Cell CK2 Regulates Inflammation and Resistance to Bacterial	Not Applicable
Infection.	Dilution
"Published figure using CD45R (B220) monoclonal antibody (Product # 46-0452-82) in Flow Cytometry"	Not Cited
Authors: Larson SR,Bortell N,Illies A,Crisler WJ,Matsuda JL,Lenz LL	Year 2021
Oncoimmunology	Species Not Applicable

The Interleukin (IL)-1R1 pathway is a critical negative regulator of PyMT-
mediated mammary tumorigenesis and pulmonary metastasis.

"Published figure using CD45R (B220) monoclonal antibody (Product # 46-0452-82) in Flow Cytometry" Authors: Dagenais M,Dupaul-Chicoine J,Douglas T,Champagne C,Morizot A,Saleh M

View more Flow references on thermofisher.com

Dilution Not Cited

Year 2021

More applications with references on thermofisher.com

For Research Use Only, Not for use in diagnostic procedures. Not for resale without express authorization. Products are varranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and for accompanying package insert ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year form date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTES, EXPRESS OR IMPLED, ARE GRANTADI INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINCEMENT, BUYER'S EXCLUSIVE REMEDY PRO NON-CONFORMING PRODUCTS DURING THE WARRANTE DO REPAIR, REPLACEMENT OF OR REPUND FOR ATHE MON-CONFORMING PRODUCTS) ATHER IS NO. DO BILGATION TO REPAIR, REPLACE OR REPUND FOR ATHE REPLACEMENT OF UNCTORING PRODUCTS DURING FOR DOUGTS DURING FOR DURING PRODUCTS DURING FOR CONFORMING PRODUCTS DURING FOR CONFORMING PRODUCTS DURING FOR DURING PRODUCTS DURING FOR