

CD45R (B220) Monoclonal Antibody (RA3-6B2), Functional Grade, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse
Published Species	Fish, Mouse, Human
Host/Isotope	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), Functional Grade, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	RA3-6B2
Conjugate	Functional Grade
Form	Liquid
Concentration	1 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	no preservative
Storage Conditions	4° C
RRID	AB_468959

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	37 Publications
Functional Assay (FN)	Assay-Dependent	1 Publication
Immunofluorescence (IF)	-	10 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Immunohistochemistry (IHC)	-	7 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	1 Publication

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: The RA3-6B2 antibody has been reported for use in flow cytometric analysis. RA3-6B2 has also been reported in functional studies of B cells.

Applications Tested: The RA3-6B2 antibody has been tested by flow cytometric analysis of mouse splenocytes and 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Storage and handling: Use in a sterile environment.

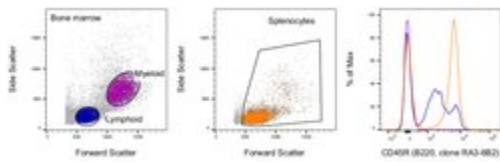
Filtration: 0.2 µm post-manufacturing filtered.

Purity: Greater than 90%, as determined by SDS-PAGE.

Endotoxin Level: Less than 0.001 ng/µg antibody, as determined by LAL assay.

Aggregation: Less than 10%, as determined by HPLC.

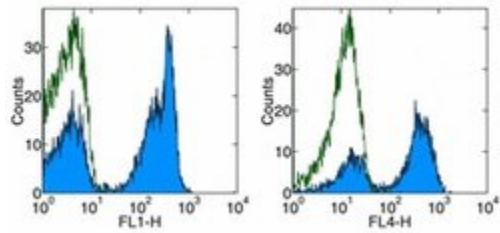
Advanced Verification Data



CD45R (B220) Antibody (16-0452-82)

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), Functional Grade, eBioscience™



CD45R (B220) Antibody (16-0452-82) in Flow

Staining of mouse splenocytes with Anti-Human/Mouse CD45R (B220) FITC (left) or APC (right). Appropriate isotype controls were used (open histogram). Total viable cells were used for analysis.

View more figures on thermofisher.com

Flow Cytometry (37)

Frontiers in immunology

ATF3 Sustains IL-22-Induced STAT3 Phosphorylation to Maintain Mucosal Immunity Through Inhibiting Phosphatases.

"Published figure using CD45R (B220) monoclonal antibody (Product # 16-0452-82) in Flow Cytometry"

Authors: Glal D,Sudhakar JN,Lu HH,Liu MC,Chiang HY,Liu YC,Cheng CF,Shui JW

Species
Not Applicable

Dilution
Not Cited

Year
2019

Frontiers in immunology

Proapoptotic BIM Impacts B Lymphoid Homeostasis by Limiting the Survival of Mature B Cells in a Cell-Autonomous Manner.

"Published figure using CD45R (B220) monoclonal antibody (Product # 16-0452-82) in Flow Cytometry"

Authors: Liu R,King A,Bouillet P,Tarlinton DM,Strasser A,Heierhorst J

Species
Not Applicable

Dilution
Not Cited

Year
2019

[View more Flow references on thermofisher.com](#)

Immunohistochemistry (Paraffin) (1)

European journal of microbiology and 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 # 16-0452-82) in Immunohistochemistry (Paraffin)"

Authors: Escher U,Giladi E,Dunay IR,Bereswill S,Gozes I,Heimesaat MM

Species
Not Applicable

Dilution
Not Cited

Year
2018

Immunofluorescence (10)

The Journal of experimental medicine

Microbial symbionts regulate the primary Ig repertoire.

"Published figure using CD45R (B220) monoclonal antibody (Product # 16-0452-82) in Immunofluorescence"

Authors: Chen Y,Chaudhary N,Yang N,Granato A,Turner JA,Howard SL,Devereaux C,Zuo T,Shrestha A,Goel RR,Neuberg D,Wesemann DR

Species
Not Applicable

Dilution
Not Cited

Year
2018

[View more IF references on thermofisher.com](#)

More applications with references on thermofisher.com

IHC (7) FN (1) IHC (F) (1)

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted 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/or accompanying package inserts ("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 from 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 WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.