

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

Product Details	
Size	500 µg
Species Reactivity	Human, Mouse
Published Species	Artificial Control, Fish, Mouse, Human
Host/Isotype	Rat / IgG2a, kappa
Class	Monoclonal
Type	Antibody
Clone	RA3-6B2
Conjugate	Biotin , Functional Grade
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	no preservative
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_469753

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	6 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Immunocytochemistry (ICC)	-	1 Publication
Immunofluorescence (IF)	-	11 Publications
Flow Cytometry (Flow)	0.125 µg/test	39 Publications
Functional Assay (FN)	Assay-Dependent	-
Control (Ctrl)	Assay-Dependent	-

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.

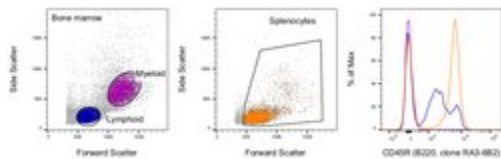
Applications Tested: This RA3-6B2 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.125 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final

volume of 100 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.

Endotoxin: Less than 0.05 ng/ug cytokine as determined by the LAL assay.

Storage and handling: Use in a sterile environment.

Advanced Verification Data



CD45R (B220) Antibody (36-0452-85)

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.

[View more figures on thermofisher.com](https://www.thermofisher.com)

Immunohistochemistry (6)

The Journal of experimental medicine

Epithelial Fli1 deficiency drives systemic autoimmunity and fibrosis: Possible roles in scleroderma.

"Published figure using CD45R (B220) monoclonal antibody (Product # 36-0452-85) in Flow Cytometry"

Authors: Takahashi T, Asano Y, Sugawara K, Yamashita T, Nakamura K, Saigusa R, Ichimura Y, Toyama T, Taniguchi T, Akamata K, Noda S, Yoshizaki A, Tsuruta D, Trojanowska M, Sato S

Species
Human
Not Applicable

Dilution
Not Cited
Not Cited

Year
2017

Carcinogenesis

Comparison of tamoxifen and letrozole response in mammary preneoplasia of ER and aromatase overexpressing mice defines an immune-associated gene signature linked to tamoxifen resistance.

"Published figure using CD45R (B220) monoclonal antibody (Product # 36-0452-85) in Immunohistochemistry"

Authors: Dabydeen SA, Kang K, Diaz-Cruz ES, Alamri A, Axelrod ML, Bouker KB, Al-Kharboosh R, Clarke R, Hennighausen L, Furth PA

Species
Mouse

Dilution
Not Cited

Year
2015

[View more IHC 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 # 36-0452-85) 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) (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

Species
Not Applicable

Dilution
Not Cited

Year
2005

More applications with references on thermofisher.com

ICC (1) IF (11) Flow (39)

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