

# CD45R (B220) Monoclonal Antibody (RA3-6B2), Functional Grade, 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), 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
Immunohistochemistry (IHC)	-	36 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	3 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	2 Publications
Immunocytochemistry (ICC/IF)	-	6 Publications
Flow Cytometry (Flow)	0.5 µg/test	75 Publications
Functional Assay (FN)	Assay-Dependent	1 Publication
Miscellaneous PubMed (Misc)	-	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 10<sup>5</sup> to 10<sup>8</sup> 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.

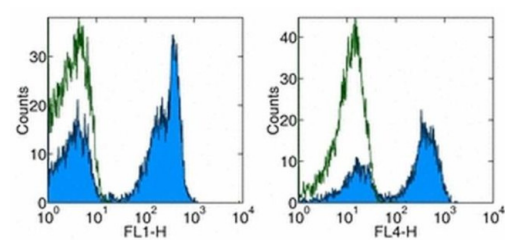
Filtration: 0.2 µm post-manufacturing filtered.

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

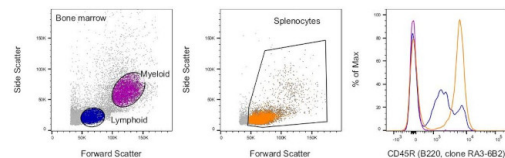
Endotoxin Level: Less than 0.001 ng/µg antibody, as determined by LAL assay.

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

**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.



**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. {RE}

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### Immunohistochemistry (36)

<p><b>Frontiers in immunology</b></p> <p><b>Role of CXCL5 in Regulating Chemotaxis of Innate and Adaptive Leukocytes in Infected Lungs Upon Pulmonary Influenza Infection.</b></p> <p>"Published figure using CD45R (B220) monoclonal antibody (Product # 16-0452-82) in Immunohistochemistry"</p> <p>Authors: Guo L,Li N,Yang Z,Li H,Zheng H,Yang J,Chen Y,Zhao X,Mei J,Shi H,Worthen GS,Liu L</p>	<p><b>Year</b> 2022</p>
<p><b>Cancers</b></p> <p><b>Targeting Ovarian Carcinoma with TSP-1:CD47 Antagonist TAX2 Activates Anti-Tumor Immunity.</b></p> <p>"Published figure using CD45R (B220) monoclonal antibody (Product # 16-0452-82) in Immunohistochemistry"</p> <p>Authors: Jeanne A,Sarazin T,Charlé M,Moali C,Fichel C,Boulagnon-Rombi C,Callewaert M,Andry MC,Diesis E,Delolme F,Rioul D,Dedieu S</p>	<p><b>Year</b> 2021</p>

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### Immunohistochemistry (Paraffin) (3)

<p><b>Pathogens (Basel, Switzerland)</b></p> <p><b>Pituitary Adenylate Cyclase-Activating Polypeptide Alleviates Intestinal, Extra-Intestinal and Systemic Inflammatory Responses during Acute <i>Campylobacter jejuni</i>-induced Enterocolitis in Mice.</b></p> <p>"Published figure using CD45R (B220) monoclonal antibody (Product # 16-0452-82) in Immunohistochemistry (Paraffin)"</p> <p>Authors: Heimesaat MM,Mousavi S,Kløve S,Genger C,Weschka D,Tamas A,Reglodi D,Bereswill S</p>	<p><b>Year</b> 2020</p>
<p><b>European journal of microbiology &amp; immunology</b></p> <p><b>Anti-inflammatory Effects of the Octapeptide NAP in Human Microbiota-Associated Mice Suffering from Subacute Ileitis.</b></p> <p>"Published figure using CD45R (B220) monoclonal antibody (Product # 16-0452-82) in Immunohistochemistry (Paraffin)"</p> <p>Authors: Escher U,Giladi E,Dunay IR,Bereswill S,Gozes I,Heimesaat MM</p>	<p><b>Year</b> 2018</p>

[View more IHC \(P\) references on thermofisher.cn](#)

### More applications with references on thermofisher.cn

- IHC (F) (2)
- ICC/IF (6)
- Flow (75)
- FN (1)
- Misc (1)

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