

# CD45R (B220) Monoclonal Antibody (RA3-6B2), eFluor™ 570, eBioscience™

Product Details	
Size	25 µg
Species Reactivity	Human, Mouse
Published Species	Mouse, Human
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), eFluor™ 570, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	RA3-6B2
Conjugate	eFluor™ 570
Excitation/Emission Max	556/569 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_2573598

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	29 Publications
Immunohistochemistry (Paraffin) (IHC (P))	2 µg/mL	2 Publications
Immunohistochemistry (Frozen) (IHC (F))	1 µg/mL	3 Publications
Immunocytochemistry (ICC/IF)	Assay-Dependent	9 Publications
Flow Cytometry (Flow)	-	2 Publications
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.

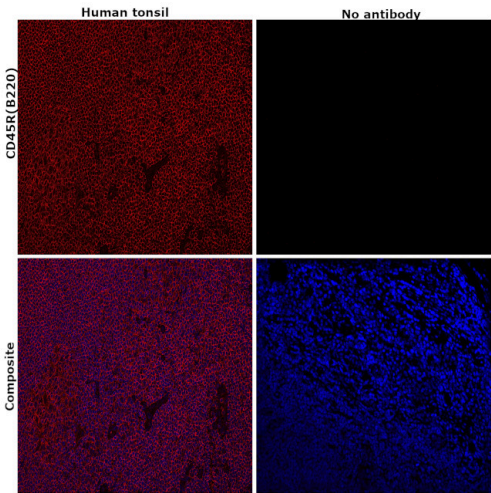
**Applications Reported:** This RA3-6B2 antibody has been reported for use in microscopy, immunocytochemistry, and immunohistochemical staining of formalin-fixed paraffin embedded or frozen tissue sections.

**Applications Tested:** This RA3-6B2 antibody has been tested by immunohistochemistry of frozen mouse spleen and can be used at less than or equal to 1 µg/mL. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Filter Recommendation: When using this eFluor® 570 antibody conjugate, we recommend a filter that will capture the 570 emission wavelength (for example, Excitation 545/25, 565LP, Emission 605/70). A standard Alexa Fluor® 555 or TRITC filter is acceptable.

Excitation: 555 nm; Emission: 570 nm

Product Images For CD45R (B220) Monoclonal Antibody (RA3-6B2), eFluor™ 570, eBioscience™

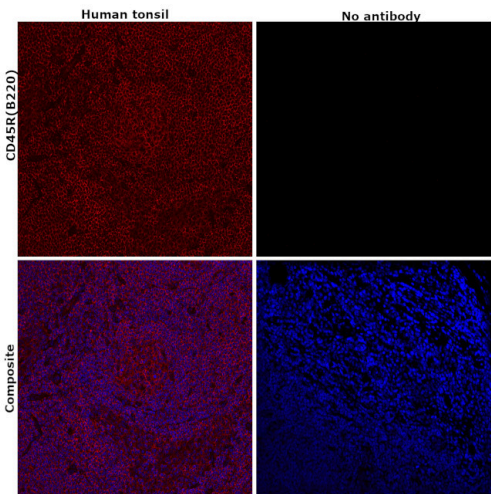
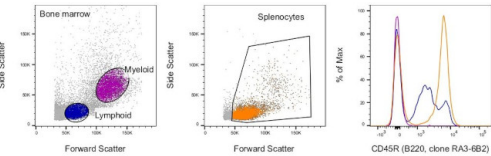


CD45R (B220) Antibody (41-0452-80) in IHC (P)

Immunohistochemical analysis of CD45R (B220) was performed using formalin-fixed paraffin-embedded human tonsil tissue sections. To expose the target protein, heat-induced epitope retrieval was performed on de-paraffinized sections using eBioscience™ IHC Antigen Retrieval Solution - High pH (10X) (Product # 00-4956-58) diluted to 1X solution in water in a decloaking chamber at 110 degree Celsius for 15 minutes. Following antigen retrieval, the sections were blocked with 2% normal goat serum in 1X PBS for 45 minutes at room temperature and then probed with or without CD45R (B220) Monoclonal Antibody (RA3-6B2), eFluor™ 570, eBioscience™ (Product # 41-0452-80) at 2 µg /mL concentration in 0.1% normal goat serum overnight at 4 degree Celsius in a humidified chamber. ReadyProbes™ Tissue Autofluorescence Quenching Kit (Product # R37630) was used to quench autofluorescence from the tissues. Nuclei were stained with DAPI (Product # D1306) and the sections were mounted using ProLong™ Glass Antifade Mountant (Product # P36984). The images were captured on EVOS™ M7000 Imaging System (Product # AMF7000) at 20X magnification and externally deconvoluted.

CD45R (B220) Antibody (41-0452-80)

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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View more figures on [thermofisher.cn](http://thermofisher.cn)

Immunohistochemistry (29)

Frontiers in immunology	Year 2022
<b>Role of CXCL5 in Regulating Chemotaxis of Innate and Adaptive Leukocytes in Infected Lungs Upon Pulmonary Influenza Infection.</b>	
"Published figure using CD45R (B220) monoclonal antibody (Product # 41-0452-80) in Immunohistochemistry"	
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	
Cancers	Year 2021
<b>Targeting Ovarian Carcinoma with TSP-1:CD47 Antagonist TAX2 Activates Anti-Tumor Immunity.</b>	
"Published figure using CD45R (B220) monoclonal antibody (Product # 41-0452-80) in Immunohistochemistry"	
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	

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

Immunohistochemistry (Paraffin) (2)

Pathogens (Basel, Switzerland)	Year 2020
<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>	
"Published figure using CD45R (B220) monoclonal antibody (Product # 41-0452-80) in Immunohistochemistry (Paraffin)"	
Authors: Heimesaat MM,Mousavi S,Kløve S,Genger C,Weschka D,Tamas A,Reglodi D,Bereswill S	
European journal of microbiology & immunology	Year 2018
<b>Anti-inflammatory Effects of the Octapeptide NAP in Human Microbiota-Associated Mice Suffering from Subacute Ileitis.</b>	
"Published figure using CD45R (B220) monoclonal antibody (Product # 41-0452-80) in Immunohistochemistry (Paraffin)"	
Authors: Escher U,Giladi E,Dunay IR,Bereswill S,Gozes I,Heimesaat MM	

More applications with references on thermofisher.cn

- IHC (F) (3)
- ICC/IF (9)
- Flow (2)
- Misc (1)

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