



CD45R (B220) Monoclonal Antibody (RA3-6B2), eFluor 450, 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), eFluor 450, eBioscience™
Class	Monoclonal
Туре	Antibody
Clone	RA3-6B2
Conjugate	eFluor® 450
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_1548761

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	19 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	2 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Immunocytochemistry (ICC/IF)	-	4 Publications
Flow Cytometry (Flow)	0.5 µg/test	95 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 lpr/lpr mutant mouse also express this antigen.

Applications Reported: This RA3-6B2 antibody has been reported for use in flow cytometric analysis.

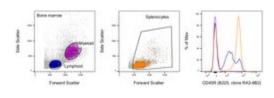
Applications Tested: This RA3-6B2 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 μL. Cell number should be determined 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.

eFluor® 450 is an alternative to Pacific Blue®. eFluor® 450 emits at 445 nm and is excited with the Violet laser (405 nm). Please make sure that your instrument is capable of detecting this fluorochome.

Excitation: 405 nm; Emission: 445 nm; Laser: Violet Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Advanced Verification Data

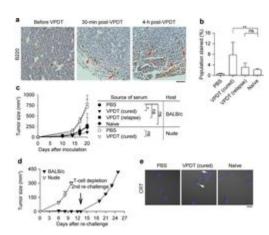


CD45R (B220) Antibody (48-0452-82)

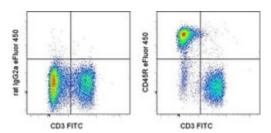
Staining of mouse splenocytes and bone marrow cells. As expected based on known relative expression patterns, CD45R (B220) clone RA3-6B2 stains subsets in both the splenocytes gate and the bone marrow lymphoid gate but not the bone marrow myeloid gate. Details: Balb/c bone marrow cells (left) and splenocytes (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.

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Figure 6 Involvement of humoral immune components in the VPDT-mediated immune response. (a) B-cell infiltration. After VPDT, paraffin tumor sections were stained with an anti-B220 antibody (brown). Arrows indicate the sites of B-cell infiltration. Bar = 200 mum. (b) Up-regulation of CT26-specific antibodies. CT26 tumor cells were incubated either with sera obtained from different groups of mice or with PBS, together with propidium iodide, followed by a secondary antibody against mouse IgG. Intact cells (propidium iodide -ve) were analyzed by flow cytometry. Sera from naive control, VPDT (cured) and VPDT (relapse) groups, n = 6, 10, and 6, respectively; PBS, n = 3. ** p < 0.005; ns, not significant. (c) Anti-tumor effects of serum. Filtered sera from different groups of mice or PBS were mixed with 2 x 10 5 CT26 cells. The suspension was inoculated subcutaneously into BALB/c mice or nude mice. Tumor growth was observed for 20 days. For the BALB/c mice, PBS control, n = 11; sera from the naive control, VPDT (cured) and VPDT (relapse) groups, n = 5, 14, and 6, respectively. For the nude mice, PBS control, n = 5; serum from the VPDT (cured) group, n = 5. * p < 0.05; ns, not significant. (d) Immunomodulatory effects of serum. On Day 20 after the first inoculation, a CT26 tumor cell re-challenge was given to the BALB/c and nude mice that had received the serum of the VPDT-cured mice. BALB/c mice, n = 11; nude mice, n = 4. The tumor size was monitored for 12 days. On Day 13 Cell treatment validation info.



Product Images For CD45R (B220) Monoclonal Antibody (RA3-6B2), eFluor 450, eBioscience™



CD45R (B220) Antibody (48-0452-82) in Flow

Staining of C57BL/6 splenocytes with Anti-Mouse CD3e FITC (Product # 11-0031-82) and 0.25 µg of Rat IgG2a kappa Isotype Control eFluor® 450 (Product # 48-4321-82) (left) or 0.25 µg of Anti-Human/Mouse CD45R (B220) eFluor® 450 (right). Total viable cells were used for analysis.

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□ 121 References

Immunohistochemistry (19)

PloS one

High-throughput analysis of lung immune cells in a combined murine model of agriculture dust-triggered airway inflammation with rheumatoid arthritis.

"Published figure using CD45R (B220) monoclonal antibody (Product # 48-0452-82) in Immunohistochemistry"

Authors: Gaurav R,Mikuls TR,Thiele GM,Nelson AJ,Niu M,Guda C,Eudy JD,Barry AE,Wyatt TA,Romberger DJ,Duryee MJ,England BR,Poole JA

Species Not Applicable

Dilution Not Cited

Year 2021

Cell death & disease

Hypoxia-induced miR-210 modulates the inflammatory response and fibrosis upon acute ischemia.

"Published figure using CD45R (B220) monoclonal antibody (Product # 48-0452-82) in Immunohistochemistry"

Authors: Zaccagnini G,Greco S,Longo M,Maimone B,Voellenkle C,Fuschi P,Carrara M,Creo P,Maselli D,Tirone M,
Mazzone M,Gaetano C,Spinetti G,Martelli F

SpeciesNot Applicable

Dilution Not Cited

Year 2021

View more IHC references on thermofisher.com

Immunohistochemistry (Paraffin) (2)

European journal of microbiology & 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 # 48-0452-82) in Immunohistochemistry (Paraffin)" Authors: Escher U,Giladi E,Dunay IR,Bereswill S,Gozes I,Heimesaat MM

Species Not Applicable

Dilution Not Cited

Year 2018

Cellular & molecular immunology

Anti-tumor immunity of BAM-SiPc-mediated vascular photodynamic therapy in a BALB/c mouse model.

"48-0452 was used in Immunohistochemistry on paraffin embedded tissues to examine the role of both cell-mediated and humoural adaptive immune components in anti-cancer photodynamic therapy."

Authors: Yeung HY,Lo PC,Ng DK,Fong WP

Species Mouse

Dilution Not Cited

Year 2017

More applications with references on thermofisher.com

IHC (F) (1)

ICC/IF (4)

Flow (95)

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