

A Reliable Research Partner in Life Science and Medicine

Elab Fluor® Violet 540 Anti-Mouse CD45R/B220 Antibody[RA3.3A 1/6.1]

Catalog Number: E-AB-F1112UT3

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

 Reactivity
 Mouse

 Host
 Rat

 Isotype
 Rat IgM, κ

 Clone No.
 RA3.3A 1/6.1

Isotype Control Elab Fluor® Violet 540 Rat IgM, κ Isotype Control[RTK2118] [Product E-AB-F09773T3]

Conjugation Elab Fluor® Violet 540

Conjugation Information Elab Fluor® Violet 540 is designed to be excited by the violet laser (405 nm) and detected

using an optical filter centered near 548 nm (e.g., a 572/28 nm bandpass filter).

Storage Buffer Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer.

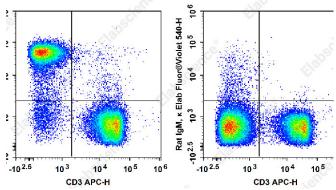
Applications Recommended usage

FCM

Each lot of this antibody is quality control tested by flow cytometric analysis. Please check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for individual use. We suggest each investigator should titrate the reagent to obtain optimal results [The recommended concentration is $0.1-1~\mu g/10^6$ cells

in 100 µL volume].

Data



Staining of C57BL/6 murine splenocytes with APC Anti-

Mouse CD3 Antibody[17A2] and Elab Fluor® Violet 540 Anti-Mouse CD45R/B220 Antibody[RA3.3A 1/6.1](left) or Elab

Fluor[®] Violet 540 Rat IgM, κ Isotype Control(right). Total viable cells were used for analysis.

Preparation & Storage

Storage Keep as concentrated solution.

This product can be stored at 2-8°C for 12 months. Please protected from prolonged

exposure to light and do not freeze.

Shipping Ice bag

Antigen Information

 Alternate Names
 B220

 Gene ID
 19264;5788

For Research Use Only

Toll-free: 1-888-852-8623 Tel: 1-832-243-6086 Fax: 1-832-243-6017

Elabscience Bionovation Inc.



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Background

CD45R, also known as B220, is an isoform of CD45. It is a member of the protein tyrosine phosphatase (PTP) family with a molecular weight of approximately 180-240 kD. CD45R is expressed on B cells (at all developmental stages from pro-B cells through mature B cells), activated B cells, and subsets of T and NK cells. CD45R (B220) is also expressed on a subset of abnormal T cells involved in the pathogenesis of systemic autoimmunity in MRL-Fas^{lpr} and MRL-Fas^{gld} mice. It plays a critical role in TCR and BCR signaling. The primary ligands for CD45 are galectin-1, CD2, CD3, and CD4. CD45R is commonly used as a pan-B cell marker; however, CD19 may be more appropriate for B cell specificity.

 Toll-free: 1-888-852-8623
 Tel: 1-832-243-6086
 Fax: 1-832-243-6017

 Web:www.elabscience.com
 Email:techsupport@elabscience.com