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Biotin Anti-Mouse CD51 Antibody [RMV-7]

Catalog Number: E-AB-F1235B

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

Description

Reactivity Mouse Host Rat

IsotypeRat $\lg G1$, κ Clone No.RMV-7

Isotype Control Biotin Rat IgG1, κ Isotype Control[HRPN] [Product E-AB-F09823B]

Conjugation Biotin

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

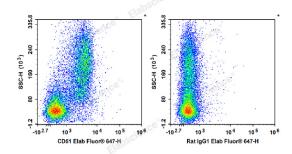
Applications Recommended usage

FCM Each lot of this antibody is quality control tested by flow cytometric analysis. For flow

cytometric staining, the suggested use of this reagent is \leq 1.0 μ g per 10⁶ cells in 100 μ L volume or 100 μ L of whole blood. It is recommended that the reagent be titrated for

optimal performance for each application.

Data



C57BL/6 murine bone marrow cells are stained with Biotin Anti-Mouse CD51 Antibody followed by Streptavidin-Elab

Fluor[®] 647 (Left). Bone marrow cells are stained with Biotin Rat IgG1, κ Isotype Control followed by Streptavidin-Elab

Fluor® 647 (Right).

Preparation & Storage

Storage Keep as concentrated solution.

This product can be stored at 2-8°C for 12 months. Do not freeze.

Shipping Ice bag

Antigen Information

Alternate Names ITGAV;Integrin alpha-V;Integrin aV chain;Vitronectin Receptor;aV integrin

 Uniprot ID
 P43406

 Gene ID
 16410

For Research Use Only

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Background

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CD51 is a 140 kD protein, also known as αV integrin, vitronectin receptor, and integrin αV . It is a member of the integrin family, expressed on activated T cells, polymorphonuclear granulocytes, platelets, blastocysts, and osteoclasts. CD51 forms heterodimers by association with integrins $\beta 1$, $\beta 3$, $\beta 5$ or $\beta 6$; these complexes then act as receptors for multiple extracellular matrix proteins (ECM). The αV integrin heterodimers have varied functions in development, stimulation/activation and homeostasis. The primary ligands for CD51 complexes are fibronectin, fibrinogen, vitronectin, thrombspondin, von Willebrand factor, and CD31. The RMV-7 antibody has been reported to block binding of CD51 to vitronectin, fibronectin, and CD31 in some cell types, as well as blocking LAK cell cytotoxicity.

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