Biotin Anti-Mouse CD51 Antibody[RMV-7]

Catalog Number: E-AB-F1235B

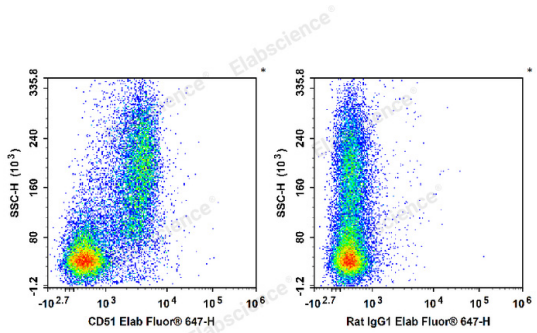
Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

Reactivity	Mouse
Host	Rat
Isotype	Rat IgG1, 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% sodium azide and 1% BSA.

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 ≤ 1.0 μg per 10^6 cells in 100 μL volume or 100 μL 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 αV chain;Vitronectin Receptor;αV integrin
Uniprot ID	P43406
Gene ID	16410

Background

CD51 is a 140 kD protein, also known as αV integrin, vitronectin receptor, and integrin α V. 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 β1, β3, β5 or β6; these complexes then act as receptors for multiple extracellular matrix proteins (ECM). The αvintegrin 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.