

## Biotin Anti-Mouse CD51 Antibody[RMV-7]

Catalog Number: E-AB-F1235B

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

### Description

<b>Reactivity</b>	Mouse
<b>Host</b>	Rat
<b>Isotype</b>	Rat IgG1, $\kappa$
<b>Clone No.</b>	RMV-7
<b>Isotype Control</b>	Biotin Rat IgG1, $\kappa$ Isotype Control[HRPN] [Product E-AB-F09823B]
<b>Conjugation</b>	Biotin
<b>Storage Buffer</b>	Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer.

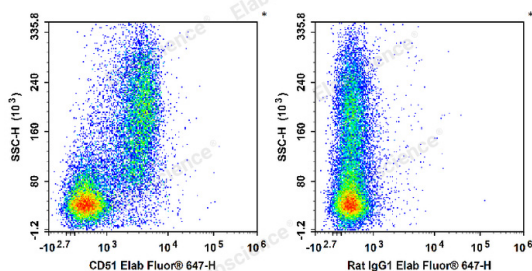
### Applications

### 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  $\leq 1.0 \mu\text{g}$  per  $10^6$  cells in  $100 \mu\text{L}$  volume or  $100 \mu\text{L}$  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,  $\kappa$  Isotype Control followed by Streptavidin-Elab Fluor® 647 (Right).

### Preparation & Storage

<b>Storage</b>	Keep as concentrated solution. This product can be stored at 2-8°C for 24 months. Do not freeze.
<b>Shipping</b>	Ice bag

### Antigen Information

<b>Alternate Names</b>	ITGAV;Integrin alpha-V;Integrin $\alpha$ V chain;Vitronectin Receptor; $\alpha$ V integrin
<b>Uniprot ID</b>	P43406
<b>Gene ID</b>	16410

### For Research Use Only

## Background

CD51 is a 140 kD protein, also known as  $\alpha$ V integrin, vitronectin receptor, and integrin  $\alpha$  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  $\beta$ 1,  $\beta$ 3,  $\beta$ 5 or  $\beta$ 6; these complexes then act as receptors for multiple extracellular matrix proteins (ECM). The  $\alpha$ v integrin heterodimers have varied functions in development, stimulation/activation and homeostasis. The primary ligands for CD51 complexes are fibronectin, fibrinogen, vitronectin, thrombospondin, 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.