

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

Catalog Number: E-AB-F1235E

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

### Description

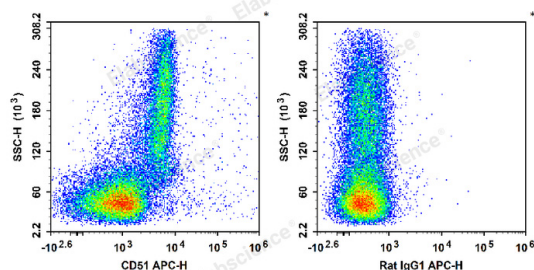
<b>Reactivity</b>	Mouse
<b>Host</b>	Rat
<b>Isotype</b>	Rat IgG1, $\kappa$
<b>Clone No.</b>	RMV-7
<b>Isotype Control</b>	APC Rat IgG1, $\kappa$ Isotype Control[HRPN] [Product E-AB-F09822E]
<b>Conjugation</b>	APC
<b>Conjugation Information</b>	APC is designed to be excited by the Red (627-640 nm) laser and detected using an optical filter centered near 660 nm (e.g., a 660/20 nm bandpass filter).
<b>Storage Buffer</b>	Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer.

### Applications

### Recommended usage

<b>FCM</b>	Each lot of this antibody is quality control tested by flow cytometric analysis. <b>The amount of the reagent is suggested to be used 5 <math>\mu</math>L of antibody per test (million cells in 100 <math>\mu</math>L staining volume or per 100 <math>\mu</math>L of whole blood).</b> Please check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for individual use.
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### Data



C57BL/6 murine bone marrow cells are stained with APC Anti-Mouse CD51 Antibody (Left). Bone marrow cells are stained with APC Rat IgG1,  $\kappa$  Isotype Control (Right).

### Preparation & Storage

<b>Storage</b>	Keep as concentrated solution. This product can be stored at 2-8°C for 24 months. Please protected from prolonged exposure to light and 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.