

## APC Anti-Human/Mouse Integrin $\beta$ 7 Antibody[FIB21]

Catalog Number: AN00423E

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

### Description

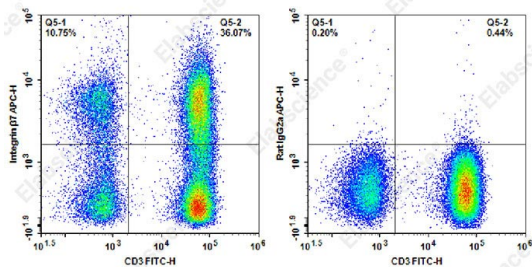
Reactivity	Human;Mouse
Host	Rat
Isotype	Rat IgG2b, $\kappa$
Clone No.	FIB21
Isotype Control	APC Rat IgG2b, $\kappa$ Isotype Control[LTF-2] [Product E-AB-F09842E]
Conjugation	APC
Conjugation Information	APC is designed to be excited by the Red (627-640 nm) laser and detected using an optical filter centered near 660 nm (e.g., a 660/20 nm bandpass filter).
Storage Buffer	Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer and 1% protein protectant.

### Applications

### Recommended usage

FCM	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



Staining of normal human peripheral blood cells with FITC Anti-Human CD3 Antibody and APC Anti-Human/Mouse integrin  $\beta$ 7 Antibody[FIB21] (left) or APC Rat IgG2a Isotype Control (right). Cells in the lymphocytes gate 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	$\beta$ 7 Integrin;integrin $\beta$ p;ITGB7
Uniprot ID	P26010;P26011

### For Research Use Only

**Gene ID**

3695;16421

**Background**

Integrin  $\beta 7$  is a 130 kD glycoprotein also known as integrin  $\beta p$ . It is a member of the Ig superfamily. In association with integrin  $\alpha 4$  or  $\alpha E$  chain,  $\beta 7$  forms  $\alpha 4/\beta 7$  or  $\alpha E/\beta 7$  heterodimer.  $\alpha 4/\beta 7$  (CD49d/ $\beta 7$ , LPAM-1) is expressed on the majority of peripheral lymphocytes, on small subsets of thymocytes, and bone marrow progenitors. LPAM-1 binds to several ligands, VCAM-1, MAdCAM-1 and fibronectin, and is involved in lymphocyte adhesion and some hematopoietic progenitor cells migration.  $\alpha E/\beta 7$  (CD103/ $\beta 7$ ,  $\alpha IEL/\beta 7$ ) is expressed on intestinal intraepithelial lymphocytes (IEL), dendritic epidermal T cells, T regulatory cells, a subset of CD8+ T cells in lymph nodes and lamina propria. CD103/ $\beta 7$  complex is thought to play a role in lymphocyte retention via interaction with its ligand E-Cadherin.

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