

A Reliable Research Partner in Life Science and Medicine

# Elab Fluor<sup>®</sup> 647 Anti-Human/Mouse Integrin β7 Antibody[FIB21]

Catalog Number: AN00423M

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

#### Description

Reactivity Human; Mouse

**Host** Rat

 $\begin{tabular}{ll} \textbf{Isotype} & Rat IgG2b, \kappa \\ \textbf{Clone No.} & FIB21 \\ \end{tabular}$ 

Isotype Control Elab Fluor® 647 Rat IgG2b, κ Isotype Control[LTF-2] [Product E-AB-F09842M]

Conjugation Elab Fluor® 647

**Conjugation Information** Elab Fluor<sup>®</sup> 647 is designed to be excited by the Red laser (627-640 nm) and detected

using an optical filter centered near 670 nm (e.g., a 660/20 nm bandpass filter).

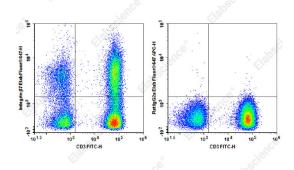
**Storage Buffer** Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer.

#### Applications Recommended usage

**FCM** 

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

#### Data



Staining of normal human peripheral blood cells with FITC

Anti-Human CD3 Antibody and Elab Fluor<sup>®</sup> 647 Anti-Human/Mouse integrin β7 Antibody[FIB21] (left) or Elab

Fluor<sup>®</sup> 647 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 lce bag

### **Antigen Information**

Alternate Names β7 Integrin;integrin βp;ITGB7

 Uniprot ID
 P26010;P26011

 Gene ID
 3695;16421

## For Research Use Only

Toll-free: 1-888-852-8623 Tel: 1-832-243-6086 Fax: 1-832-243-6017

Web:www.elabscience.com Email:techsupport@elabscience.com

### Elabscience Bionovation Inc.



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### **Background**

Integrin β7 is a 130 kD glycoprotein also known as integin βp. It is a member of the lg superfamily. In association with integrin  $\alpha 4$  or  $\alpha E$  chain,  $\beta 7$  forms  $\alpha 4/\beta 7$  or  $\alpha E/\beta 7$ heterodimer. α4/β7 (CD49d/β7, 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. αΕ/β7 ( CD103/β7,αIEL/β7) 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/β7 complex is thought to play a role in lymphocyte retention via interaction with its ligand E-Cadherin.

Fax: 1-832-243-6017 Toll-free: 1-888-852-8623 Tel: 1-832-243-6086 Web:www.elabscience.com