

PerCP/Cyanine5.5 Anti-Human/Mouse Integrin β 7 Antibody[FIB21]

Catalog Number: AN00423J

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

Description

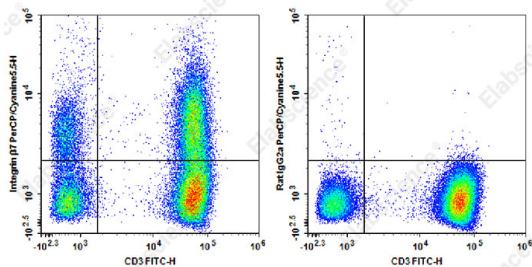
Reactivity	Human;Mouse
Host	Rat
Isotype	Rat IgG2b, κ
Clone No.	FIB21
Isotype Control	PerCP/Cyanine5.5 Rat IgG2b, κ Isotype Control[LTF-2] [Product E-AB-F09842J]
Conjugation	PerCP/Cyanine 5.5
Conjugation Information	PerCP/Cyanine5.5 is designed to be excited by the blue laser (488 nm) and detected using an optical filter centered near 675 nm (e.g., a 690/50 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 μL of antibody per test (million cells in 100 μL staining volume or per 100 μL of whole blood). 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 PerCP/Cyanine5.5 Anti-Human/Mouse integrin β 7 Antibody[FIB21] (left) or PerCP/Cyanine5.5 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 24 months. Please protected from prolonged exposure to light and do not freeze.
Shipping	Ice bag

Antigen Information

Alternate Names	β 7 Integrin;integrin β 7;ITGB7
Uniprot ID	P26010;P26011
Gene ID	3695;16421

For Research Use Only

Background

Integrin $\beta 7$ is a 130 kD glycoprotein also known as integrin βp . It is a member of the Ig superfamily. In association with integrin $\alpha 4$ or αE 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.