

PerCP/Cy5.5 anti-human/mouse Integrin β 7

Catalog # / Size: 2206095 / 25 tests
2206100 / 100 tests

Clone: FIB504

Isotype: Rat IgG2a, κ

Immunogen: TK1 cells

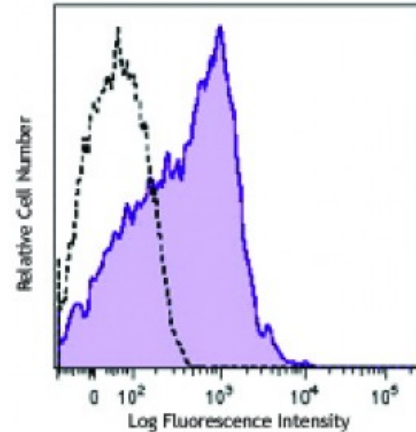
Reactivity: Other

Preparation: The antibody was purified by affinity chromatography and conjugated with PerCP/Cy5.5 under optimal conditions. The solution is free of unconjugated PerCP/Cy5.5 and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Workshop Number: VI 6T-101, VI A024

Concentration: Lot-specific



Human peripheral blood lymphocytes stained with Integrin β 7 (clone FIB504) PerCP/Cy5.5 (filled histogram) or rat IgG2a, κ PerCP/Cy5.5 isotype control (open histogram).

Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 microl per million cells or 5 microl per 100 microl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

* PerCP/Cy5.5 has a maximum absorption of 482 nm and a maximum emission of 690 nm.

Application Notes: The FIB504 antibody has been reported to react with mouse and human β 7 integrin and to block β 7 integrin-mediated cell adhesion in *in vitro* and *in vivo* studies. Additional reported applications (for the relevant formats) include: blocking of cell adhesion^{1,3,4}. The LEAF™ purified FIB504 antibody (Endotoxin <0.1 EU/ μ g, Azide-Free, 0.2 μ m filtered) is recommended for functional assays (Cat. No. 321218).

Application References:

1. Andrew DP, *et al.* 1994. *J. Immunol.* 153:3847. (Block)
2. Berlin C, *et al.* 1993. *Cell* 74:185.
3. Rott LS, *et al.* 1996. *J. Immunol.* 156:3727. (Block)
4. Rivera-Nieves J, *et al.* 2005. *J. Immunol.* 174:2343. (Block)
5. Ohmori K, *et al.* 2009. *J. Immunol.* 182:2835. [PubMed](#)
6. Yoshino N, *et al.* 2000. *Exp. Anim. (Tokyo)* 49:97. (FC)

Description: Integrin β 7 is a 130 kD glycoprotein also known as integrin β p. It is a member of the Ig superfamily. In association with integrin α 4 or α E chain, β 7 forms α 4/ β 7 or α E/ β 7 heterodimer. α 4/ β 7 (CD49d/ β 7, LPAM-1) is expressed on the majority of peripheral lymphocytes, on small subsets of thymocytes, and bone marrow progenitors. α 4/ β 7 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.

**Antigen
References:**

1. Andrew DP, *et al.* 1994. *J. Immunol.* 153:3847.
2. Picarella D, *et al.* 1997. *J. Immunol.* 158:2099.
3. Lefrancois L, *et al.* 1994. *Eur. J. Immunol.* 24:635
4. Cepek KL, *et al.*