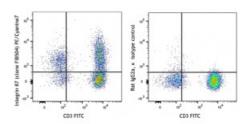
PE/Cyanine7 anti-human/mouse integrin β7

| Catalog # / Size: | 2206210 / 100 tests 2206205 / 25 tests |
|-----------------------|---|
| Clone: | FIB504 |
| lsotype: | Rat IgG2a, к |
| Immunogen: | TK1 cells |
| Reactivity: | Human, Mouse, Non-human primate, Other |
| Preparation: | The antibody was purified by affinity chromatography and conjugated with PE/Cyanine7 under optimal conditions. |
| 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 were stained with CD3 FITC and integrin β 7 (clone FIB504) PE/Cyanine7 (left) or rat lgG2a, κ PE/Cyanine7 isotype control (right).

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 μ L per million cells in 100 μ L staining volume or 5 μ L per 100 μ L of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. |
| Application Notes: | The FIB504 antibody has been reported to react with mouse and human ß7 integrin and to block ß7 integrin-mediated cell adhesion in <i>in vitro</i> and <i>in vivo</i> studies. Additional reported applications (for the relevant formats) include: blocking of cell adhesion ^{1,3,4} . The Ultra-LEAF ^{m} purified FIB504 antibody (Endotoxin < 0.01 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 321233-321238). |
| Application References: | Andrew DP, et al. 1994. J. Immunol. 153:3847. (Block) Berlin C, et al. 1993. Cell 74:185. Rott LS, et al. 1996. J. Immunol. 156:3727. (Block) Rivera-Nieves J, et al. 2005. J. Immunol. 174:2343. (Block) Ohmori K, et al. 2009. J. Immunol. 182:2835. PubMed Yoshino N, et al. 2000. Exp. Anim. (Tokyo) 49:97. (FC) |

Description: Integrin β 7 is a 130 kD glycoprotein also known as integin 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. LPAM-1 binds to several ligands, VCAM-1, MAdCAM-1 and fibronectin, and is involved in lymphocyte adhesion and some hematopoietic progenitor cells migration. α E/ β 7 (CD103/ β 7, α _{IEL}/ β 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/ β 7 complex is thought to play a role in lymphocyte retention via interaction with its ligand E-Cadherin.

| Antigen | 1. Andrew DP, et al. 1994. J. Immunol. 153:3847. |
|--------------------|---|
| References: | 2. Picarella D, et al. 1997. J. Immunol. 158:2099. |
| | 3. Lefrancois L, et al. 1994. Eur. J. Immunol. 24:635 |
| | 4. Cepek KL, <i>et al.</i> 1994. <i>Nature</i> 372:190. |