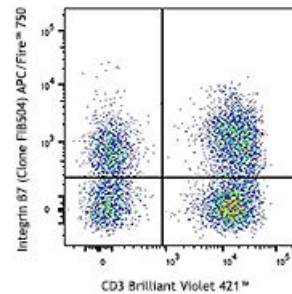


APC/Fire™ 750 anti-human/mouse integrin β7

Catalog # / 2206115 / 25 tests
Size: 2206120 / 100 tests
Clone: FIB504
Isotype: Rat IgG2a, κ
Immunogen: TK1 cells
Reactivity: Human, Non-human primate, Other
Preparation: The antibody was purified by affinity chromatography and conjugated with APC/Fire™ 750 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 Brilliant Violet 421™ and Integrin β7 (clone FIB504) APC/Fire™ 750 (top) or rat IgG2a, κ APC/Fire™ 750 isotype control (bottom).

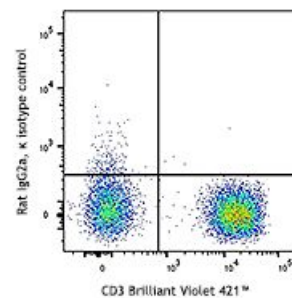
Applications:

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 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood.

* APC/Fire™ 750 has a maximum excitation of 650 nm and a maximum emission of 787 nm.

Application Notes: The FIB504 antibody has been reported to react with mouse and human β7 integrin and to block β7 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 Ultra-LEAF™ 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:**

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 $\beta 7$ 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.

**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. 1994. *Nautre* 372:190.