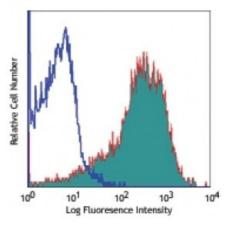
## **Product Data Sheet**

## Biotin anti-human/mouse Integrin β7

Catalog # / Size:	2206045 / 50 μg
Clone:	FIB504
Isotype:	Rat IgG2a, κ
Immunogen:	TK1 cells
<b>Reactivity:</b>	Other
Preparation:	The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions. The solution is free of unconjugated biotin.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Workshop Number:	VI 6T-101, VI A024
<b>Concentration:</b>	0.5



C57BL/6 mouse splenocytes stained with biotinylated FIB504, followed by Sav-PE

## **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 $\leq 0.25$ microg per million cells in 100 microL volume. 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 $\beta$ 7 integrin and to block $\beta$ 7 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 <sup>1,3,4</sup> . The LEAF <sup>TM</sup> purified FIB504 antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 321218).
Application References:	<ol> <li>Andrew DP, <i>et al.</i> 1994. <i>J. Immunol.</i> 153:3847. (Block)</li> <li>Berlin C, <i>et al.</i> 1993. <i>Cell</i> 74:185.</li> <li>Rott LS, <i>et al.</i> 1996. <i>J. Immunol.</i> 156:3727. (Block)</li> <li>Rivera-Nieves J, <i>et al.</i> 2005. <i>J. Immunol.</i> 174:2343. (Block)</li> <li>Ohmori K, <i>et al.</i> 2009. <i>J. Immunol.</i> 182:2835. <u>PubMed</u></li> <li>Yoshino N, <i>et al.</i> 2000. <i>Exp. Anim. (Tokyo)</i> 49:97. (FC)</li> <li>Yamada D, <i>et al.</i> 2014. <i>J. Immunol.</i> 192:4112. <u>PubMed</u></li> </ol>

**Description:** Integrin  $\beta7$  is a 130 kD glycoprotein also known as integin  $\betap$ . It is a member of the Ig superfamily. In association with integrin  $\alpha4$  or  $\alphaE$  chain,  $\beta7$  forms  $\alpha4/\beta7$  or  $\alphaE/\beta7$  heterodimer.  $\alpha4/\beta7$  (CD49d/ $\beta7$ , LPAM-1) is expressed on the majority of peripheral lymphocytes, on small subsets of thymocytes, and bone marrow progenitors.  $a4/\beta7$  binds to several ligands, VCAM-1, MAdCAM-1 and fibronectin, and is involved in lymphocyte adhesion and some hematopoietic progenitor cells migration.  $\alpha E/\beta7$  (CD103/ $\beta7$ ,  $\alpha_{IEL}/\beta7$ ) is expressed on intestinal intraepithelial lymphocytes (IEL), dendritic epidermal T cells, T regulatory cells, a subset of CD8<sup>+</sup> T cells in lymph nodes and lamina propria. CD103/ $\beta7$  complex is thought to play a role in lymphocyte retention via interaction with its ligand E-Cadherin.

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Antigen	1. Andrew DP, <i>et al.</i> 1994. <i>J. Immunol.</i> 153:3847.
<b>References:</b>	2. Picarella D, <i>et al.</i> 1997. <i>J. Immunol.</i> 158:2099.
	3. Lefrancois L, et al. 1994. Eur. J. Immunol. 24:635

4. Cepek KL, et al.