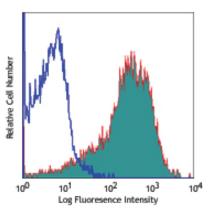


## **Product Data Sheet**

## Biotin anti-human/mouse Integrin $\beta$ 7

Catalog # / Size:	321209 / 50 μg 321210 / 500 μg	
Clone:	FIB504	
Isotype:	Rat IgG2a, κ	
Workshop Number:	VI 6T-101, VI A024	
Immunogen:	TK1 cells	
Reactivity:	Human, Mouse, <b>Cross-Reactivity:</b> Chimpanzee, Baboon, Cynomolgus, Rhesus	
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.	
Concentration:	0.5 mg/ml	
Storage:	The antibody solution should be stored undiluted at 4°C. Do not freeze.	



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

## **Applications:**

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Applications:	FC - Quality tested		
Recommended Usage:	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is $\leq 0.25 \ \mu g$ per million cells in 100 $\mu$ l 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 β7 integrin and to block β7 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>™</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, et al. 1994. J. Immunol. 153:3847. (Block)</li> <li>Berlin C, et al. 1993. Cell 74:185.</li> <li>Rott LS, et al. 1996. J. Immunol. 156:3727. (Block)</li> <li>Rivera-Nieves J, et al. 2005. J. Immunol. 174:2343. (Bl</li> <li>Ohmori K, et al. 2009. J. Immunol. 182:2835. PubMe</li> <li>Yoshino N, et al. 2000. Exp. Anim. (Tokyo) 49:97. (FC)</li> </ol>		
Description:	Integrin $\beta$ 7 is a 130 kD glycoprotein also known as integin $\beta$ p. It is a member of the Ig superfamily. In association with integrin $\alpha$ 4 or $\alpha$ E 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, $\alpha$ <sub>IEL</sub> / $\beta$ 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:	<ol> <li>Andrew DP, et al. 1994. J. Immunol. 153:3847.</li> <li>Picarella D, et al. 1997. J. Immunol. 158:2099.</li> <li>Lefrancois L, et al. 1994. Eur. J. Immunol. 24:635</li> <li>Cepek KL, et al. 1994. Nautre 372:190.</li> </ol>		
Related Products	<b>Product</b> APC Streptavidin APC/Cy7 Streptavidin FITC Streptavidin PE Streptavidin PE/Cy5 Streptavidin PE/Cy7 Streptavidin Cell Staining Buffer RBC Lysis Buffer (10X) Biotin Rat IgG2a, κ Isotype Ctrl Human TruStain FcX <sup>™</sup> (Fc Receptor Blocking Solution)	Clone RTK2758	Application           FC, ICFC           FC, ICFC

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