SONY

Product Data Sheet

PerCP/Cy5.5 anti-human/mouse integrin β7

Catalog # / Size: 1205040 / 100 µg
1205035 / 25 µg

Clone: FIB27

Isotype: Rat IgG2a, κ

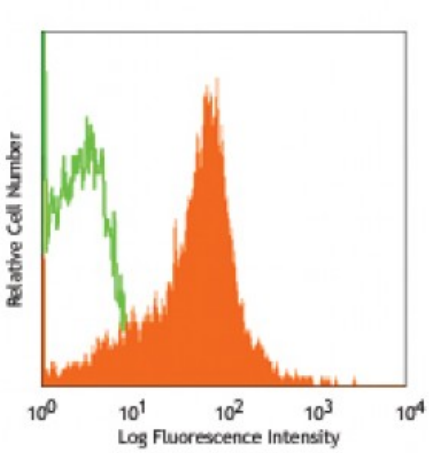
Immunogen: TK1 cells

Reactivity: Human,Mouse

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.

Concentration: 0.2



C57BL/6 splenocytes stained with FIB27 PerCP/Cy5.5

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 ≤0.25 microg per million cells in 100 microL volume. 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 References:
1. Andrew DP, *et al.* 1994. *J. Immunol.* 153:3847. (Block)
2. Berlin C, *et al.* 1993. *Cell* 74:185. (Block)
3. Tidswell M, *et al.* 1997. *J. Immunol.* 159:1497. (Block)

Description: Integrin β7 is a 130 kD glycoprotein, also known as integin βp. It is a member of the Ig superfamily. In association with integrin α4 or αE chain, β7 forms α4/β7 or αE/β7 heterodimer. α4/β7 (CD49d/β7, LPAM-1) is expressed on majority of peripheral lymphocytes, 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, some hematopoietic progenitor cells migration. αE/β7 (CD103/β7,α_{IEL}/β7) 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/β7 complex is thought to play a role in lymphocyte retention via interaction with its lignd E-Cadherin. The FIB27 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.

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.*