Technical Data Sheet

PE Rat Anti-Human Integrin β7

Product Information

 Material Number:
 555945

 Size:
 100 tests

 Vol. per Test:
 20 μl

 Clone:
 FIB504

 Isotype:
 Rat (SD) IgG2a, κ

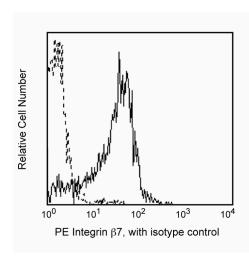
 Reactivity:
 QC Testing: Human

 Workshop:
 VI Α024, VI 6Τ-101

Storage Buffer: Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

FIB504 reacts with mouse integrin β 7 subunit (130 kD) but also cross reacts with human integrin β 7. Integrin β 7 associates with α 4 (CD49d) expressed on subsets of lymphocytes and thymus. It also associates with α IEL (CD103) expressed on T cells adjacent to mucosal epithelium and intraepithelial lymphocytes. Integrin β 7 plays an important role in the adhesion of leukocytes to endothelial cells promoting the transmigration of leukocytes to extravascular spaces during the inflammatory response.



Profile of peripheral blood lymphocytes analyzed on a FACScan (BDIS, San Jose, CA)

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed by gel filtration chromatography.

Store undiluted at 4° C and protected from prolonged exposure to light. Do not freeze.

Application Notes

Application

- 41	ррпсации				
	Flow cytometry	Routinely Tested			

Suggested Companion Products

Catalog Number	Name	Size	Clone
555844	PE Rat IgG2a, κ Isotype Control	100 tests	R35-95

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Product Notices

- 1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use 1 X 10e6 cells in a 100-μl experimental sample (a test).
- 2. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
- 3. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
- For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/pharmingen/colors.
- 5. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
- Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

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Butcher EC, Picker LJ. Lymphocyte homing and homeostasis. Science. 1996; 272(5258):60-66.(Biology)

Erle DJ, Briskin MJ, Butcher EC, Garcia-Pardo A, Lazarovits AI, Tidswell M. Expression and function of the MAdCAM-1 receptor, integrin alpha 4 beta 7, on human leukocytes. *J Immunol.* 1994; 153(2):517-528.(Biology)

Rott LS, Briskin MJ, Andrew DP, Berg EL, Butcher EC. A fundamental subdivision of circulating lymphocytes defined by adhesion to mucosal addressin cell adhesion molecule-1. Comparison with vascular cell adhesion molecule-1 and correlation with beta 7 integrins and memory differentiation. *J Immunol.* 1996; 156(10):3727-3736.(Biology)

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