Technical Data Sheet

PE Rat Anti-Mouse Integrin β7 Chain

Product Information	
Material Number:	557498
Alternate Name:	Integrin βp
Size:	0.1 mg
Concentration:	0.2 mg/ml
Clone:	M293
Immunogen:	$\alpha IEL\beta7$ integrin from the C57BL/10 mouse T-cell hybridoma MTC-1
Isotype:	Rat (LOU) IgG2a, κ
Reactivity:	QC Testing: Mouse
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

Description

The M293 antibody reacts with the integrin β 7 chain (also known as integrin β p), which is found in association with either of two α chains. α 4 β 7 (LPAM-1) is expressed on most mature lymphocytes and on small subsets of thymic and bone marrow cells; it interacts with several ligands, including VCAM-1, fibronectin, and MAdCAM-1. α IEL β 7 is found primarily on intestinal mucosal and intraepithelial lymphocytes (IEL), and it may be primarily involved in interactions between IEL and epithelia *via* recognition of E-cadherin. The epitope recognized by the mAb M293 has been mapped to the region between amino acids 387 and 542. The M293 antibody exhibits little or no activity in blocking β 7 integrin-mediated adhesion.

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

Application Notes

A	Application	
	Flow cytometry	Routinely Tested

Suggested Companion Products

Catalog Number	Name		Clone
553930	PE Rat IgG2a, κ Isotype Control	0.1 mg	R35-95

Product Notices

- 1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
- 2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
- 3. 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.

References

Andrew DP, Berlin C, Honda S, et al. Distinct but overlapping epitopes are involved in alpha 4 beta 7-mediated adhesion to vascular cell adhesion molecule-1,

mucosal addressin-1, fibronectin, and lymphocyte aggregation. *J Immunol*. 1194; 153(9):3847-3861.(Biology) Berlin C, Berg EL, Briskin MJ, et al. Alpha 4 beta 7 integrin mediates lymphocyte binding to the mucosal vascular addressin MAdCAM-1. *Cell*. 1993;

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Gabor MJ, Godfrey DI, Scollay R. Recent thymic emigrants are distinct from most medullary thymocytes. Eur J Immunol. 1997; 27(8):2010-2050. (Biology) Kilshaw PJ, Murant SJ. Expression and regulation of beta 7(beta p) integrins on mouse lymphocytes: relevance to the mucosal immune system. Eur J Immunol. 1991; 21(10):2591-2597. (Immunogen)

Wagner N, Löhler J, Kunkel EJ, Ley K, Leung E, Krissansen G, Rajewsky K, Müller W. Critical role for beta7 integrins in formation of the gut-associated lymphoid tissue. *Nature*. 1996 July; 382(6589):366-370. (Biology)

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