

1A-670-T100

Monoclonal Antibody to CD103 Allophycocyanin (APC) conjugated (100 tests)

Clone:	Ber-ACT8
Isotype:	Mouse IgG1
Specificity:	The mouse monoclonal antibody Ber-ACT8 recognizes CD103 (alpha E integrin), a type I transmembrane glycoprotein primarily found on intestinal intraepithelial lymphocytes. HLDA V; WS Code A067
Regulatory Status:	RUO
Immunogen:	HTLV-1 induced human T cell line MAPS16
Species Reactivity:	Human, Non-Human Primates
Preparation:	The purified antibody is conjugated with cross-linked Allophycocyanin (APC) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Storage Buffer:	The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide.
Storage / Stability:	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.
Usage:	The reagent is designed for Flow Cytometry analysis of human blood cells using 10 µl reagent / 100 µl of whole blood or 10 ⁶ cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.
Expiration:	See vial label
Lot Number:	See vial label
Background:	CD103 / Integrin alphaE is an integrin subunit that is expressed on intraepithelial lymphocytes, epithelial dendritic cells, lamina propria-derived dendritic cells, a subpopulation of lamina propria T cells, a small subset of peripheral lymphocytes, namely T reg cells, and on activated and TGF-beta stimulated lymphocytes. CD103 is in mature form cleaved into two disulfide-linked chains (C-terminal 150 kDa chain and N-terminal 25 kDa chain). It heterodimerizes with integrin beta7 subunit to form alphaE/beta7 integrin (mucosal lymphocyte 1 antigen), which through binding E-cadherin mediates homing of lymphocytes to the intestinal epithelium, and, in addition to the role in adhesion, may serve as an accessory molecule for intraepithelial lymphocyte activation.

For laboratory research only, not for drug, diagnostic or other use.

**Antibodies****References:**

- *Jaensson E, Uronen-Hansson H, Pabst O, Eksteen B, Tian J, Coombes JL, Berg PL, Davidsson T, Powrie F, Johansson-Lindbom B, Agace WW: Small intestinal CD103+ dendritic cells display unique functional properties that are conserved between mice and humans. *J Exp Med.* 2008 Sep 1;205(9):2139-49.
- *Zhang L, Bertucci AM, Ramsey-Goldman R, Burt RK, Datta SK: Regulatory T cell (Treg) subsets return in patients with refractory lupus following stem cell transplantation, and TGF-beta-producing CD8+ Treg cells are associated with immunological remission of lupus. *J Immunol.* 2009 Nov 15;183(10):6346-58.
- *Cardoso CR, Garlet GP, Moreira AP, Júnior WM, Rossi MA, Silva JS: Characterization of CD4+CD25+ natural regulatory T cells in the inflammatory infiltrate of human chronic periodontitis. *J Leukoc Biol.* 2008 Jul;84(1):311-8.
- *French JJ, Cresswell J, Wong WK, Seymour K, Charnley RM, Kirby JA: T cell adhesion and cytolysis of pancreatic cancer cells: a role for E-cadherin in immunotherapy? *Br J Cancer.* 2002 Oct 21;87(9):1034-41.
- *Brandes M, Willimann K, Lang AB, Nam KH, Jin C, Brenner MB, Morita CT, Moser B: Flexible migration program regulates gamma delta T-cell involvement in humoral immunity. *Blood.* 2003 Nov 15;102(10):3693-701.
- *Kost CB, Holden JT, Mann KP: Marginal zone B-cell lymphoma: a retrospective immunophenotypic analysis. *Cytometry B Clin Cytom.* 2008 Sep;74(5):282-6.
- *Kost CB, Holden JT, Mann KP: Marginal zone B-cell lymphoma: a retrospective immunophenotypic analysis. *Cytometry B Clin Cytom.* 2008 Sep;74(5):282-6.
- *Sigmundsdottir H, Johnston A, Gudjonsson JE, Bjarnason B, Valdimarsson H: Methotrexate markedly reduces the expression of vascular E-selectin, cutaneous lymphocyte-associated antigen and the numbers of mononuclear leucocytes in psoriatic skin. *Exp Dermatol.* 2004 Jul;13(7):426-34.
- *León F, Roy G: Isolation of human small bowel intraepithelial lymphocytes by annexin V-coated magnetic beads. *Lab Invest.* 2004 Jun;84(6):804-9.
- *Poles MA, Barsoum S, Yu W, Yu J, Sun P, Daly J, He T, Mehandru S, Talal A, Markowitz M, Hurley A, Ho D, Zhang L: Human immunodeficiency virus type 1 induces persistent changes in mucosal and blood gammadelta T cells despite suppressive therapy. *J Virol.* 2003 Oct;77(19):10456-67.
- *And other.

Unless indicated otherwise, all products are For Research Use Only and not for diagnostic or therapeutic use. Not for resale or transfer either as a stand-alone product or as a component of another product without written consent of EXBIO. EXBIO will not be held responsible for patent infringement or other violations that may occur with the use of our products. All orders are accepted subject to EXBIO's term and conditions which are available at www.exbio.cz.

For laboratory research only, not for drug, diagnostic or other use.

EXBIO Praha | Nad Safinou II 341 | 252 50 Vestec u Prahy | Czech Republic
Tel: +420 261 090 666 | Fax: +420 261 090 660 | orders@exbio.cz | www.exbio.cz