

1F-670-T025

Monoclonal Antibody to CD103 Fluorescein (FITC) conjugated (25 tests)

Clone: Ber-ACT8
Isotype: Mouse IqG1

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 Fluorescein isothiocyanate (FITC) under

optimum conditions. The reagent is free of unconjugated FITC 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 4

μl reagent / 100 μl of whole blood or 10° cells in a suspension.

The content of a vial (0.1 ml) is sufficient for 25 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.



PRODUCT DATA SHEET

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.