

1P-670-T100

## Monoclonal Antibody to CD103 Phycoerythrin (PE) conjugated (100 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.

See vial label

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 R-Phycoerythrin (PE) 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° cells in a suspension.

The content of a vial (1 ml) is sufficient for 100 tests.

**Expiration:** See vial label

Lot Number:

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:

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\*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.

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\*And other.

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