

TECHNICAL DATA SHEET

CyFlow™ CD103 APC **Anti-Hu; Clone Ber-ACT8**

REF CR778480

For Research Use Only.
Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD103
Alternative Names	HML-1, Integrin αE-subunit
Clone	Ber-ACT8
Clonality	monoclonal
Format	APC
Host / Isotype	Mouse / IgG1
Species Reactivity	Human, Non-Human Primates
Negative Species Reactivity	—
Quantity	100 tests
Immunogen	HTLV-1 induced human T cell line MAPS16

Specificity

The mouse monoclonal antibody Ber-ACT8 recognizes CD103 antigen, a type I transmembrane glycoprotein primarily found on intestinal intraepithelial lymphocytes.

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Application

The reagent is designed for Flow Cytometry analysis of human blood cells. Recommended usage is 10 µl reagent / 100 µl of whole blood or 10⁶ cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.

Other usages may be determined from the scientific literature.

Storage Buffer

The reagent is provided in stabilizing phosphate buffered saline (PBS) solution, pH ≈7.4, containing 0.1% (w/v) sodium azide.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

Background Information

CD103 (Integrin αE) 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-β 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 β7 subunit to form αE/β7 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.

References

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The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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