PE anti-human CD103 (Integrin αE)

Catalog # / Size: 2351025 / 25 tests

2351030 / 100 tests

Clone: Ber-ACT8

Isotype: Mouse IgG1, κ

HTLV-1 induced human T cell line Immunogen:

MAPS16

Reactivity: Human

Preparation: The antibody was purified by affinity

> chromatography and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and

unconjugated antibody.

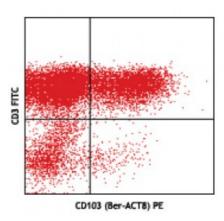
Formulation: Phosphate-buffered solution, pH 7.2,

containing 0.09% sodium azide and

0.2% (w/v) BSA (origin USA).

Workshop **Number:** V A067

Concentration: Lot-specific



PHA-stimulated (3 day) human peripheral blood lymphocytes stained with CD103 (Ber-ACT8) PE and CD3 FITC

Applications:

Applications: Flow Cytometry

Recommended

Usage:

Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. Test size products are transitioning from 20 microL to 5 microL per test. Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 microL staining volume or per 100 microL of whole blood. It is recommended that the reagent be titrated for

optimal performance for each application.

Application

Additional reported applications (for the relevant formats) include: Western Notes: Blotting1, immunoprecipitation1, and immunohistochemical staining of frozen

tissue sections1.

Application

1. Kruschwitz M, et al. 1991. J. Clin. Pathol. 44:636. (WB, IP, IHC)

References: 2. Yoshino N, et al. 2000. Exp. Anim. (Tokyo) 49:97. (FC)

Description:

CD103 is a type I transmembrane glycoprotein also known as αE integrin, integrin αIEL chain, and human mucosal lymphocyte antigen 1. It belongs to the integrin family and is primarily found on intestinal intraepithelial lymphocytes (IEL). CD103 is also expressed on a subpopulation of lamina propria T cells, epithelial dendritic cells, lamina propria-derived dendritic cells, and a small subset of peripheral lymphocytes. Treg cells express high level of CD103. Hairy cell leukemia has also been shown to express CD103. The expression of CD103 on lymphocytes can be induced upon activation and TGF-β stimulation. In association with integrin β7, CD103 is expressed as an α E/ β 7 heterodimer. Mature CD103 protein can be cleaved into 2 chains, a 150 kD (C-terminal) chain and a 25 kD (N-terminal) chain, which remain linked by disulfide bonds. CD103 binds to E-cadherin and mediates homing of lymphocytes to the intestinal epithelium.

Antigen

1. Parker CM, et al. 1992. P. Natl. Acad. Sci. USA 89:1924.

References: 2. Kruschwitz M, et al. 1991. J. Clin. Pathol. 44:636.

	3. Schon MP, <i>et al.</i> 1999. <i>J. Immunol.</i> 162:6641. 4. Shaw SK, <i>e</i>
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