

Anti-Human CD103-151Eu

Catalog #: 3151011B

Package Size: 100 tests

Storage: Store product at 4°C. Do not freeze.

Cross Reactivity: Cynomolgus Monkey

Clone: Ber-ACT8

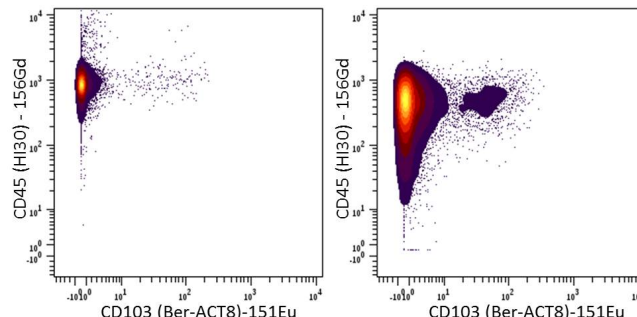
Isotype: Mouse IgG1

Formulation: Antibody stabilizer with 0.05% Sodium Azide

Technical Information

Validation: Each lot of conjugated antibody is quality control tested by CyTOF[®] analysis of stained cells using the appropriate positive and negative cell staining and/or activation controls.

Recommended Usage: The suggested use is 1 µl for up to 3 X 10⁶ live cells in 100 µl. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.



Human PBMCs were incubated for 3 days in media alone (left) or with PHA (right) and then cells were stained with 154Sm-anti-CD45 (HI30) and 151Eu-anti- CD103 (Ber-ACT8).

Description

CD103, also known as integrin alpha E (ITGAE), is a type I transmembrane integrin protein that binds integrin beta 7 to form the integrin $\alpha E\beta 7$. CD103 is expressed on intraepithelial lymphocyte (IEL) alpha-beta and gamma-delta T cells, a subset of regulatory T (Treg) cells, lamina propria T cells, and a subset of dendritic cells. CD103 has also been used as a marker to identify hairy cell leukemia. CD103 is the primary ligand for E-cadherin, an adhesion molecule found on epithelial cells. It is likely that this interaction plays a role in T cell homing to intestinal sites. Stimulation of human T cells induces up-regulation of CD103.

References

Bandura, D. R., et al. Mass Cytometry: Technique for Real Time Single Cell Multitarget Immunoassay Based on Inductively Coupled Plasma Time-of-Flight Mass Spectrometry. *Analytical Chemistry* 81:6813-6822, 2009.

Ornatsky, O. I., et al. Highly multiparametric analysis by mass cytometry. *J Immunol Methods* 361 (1-2):1-20, 2010.

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