

## Anti-Hu CD103 Purified ITGAE Monoclonal Antibody

Catalog Number: M07091-1

### About ITGAE

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.

### Overview

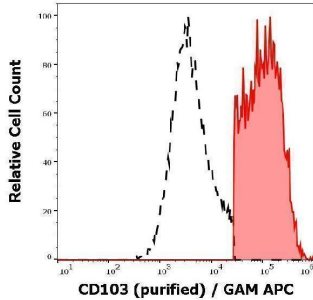
Product Name	Anti-Hu CD103 Purified ITGAE Monoclonal Antibody
Reactive Species	Human, Primate
Description	Boster Bio Anti-Hu CD103 Purified ITGAE Monoclonal Antibody (Catalog# M07091-1). Tested in Flow Cytometry, IP, WB, IHC-F application(s). This antibody reacts with Human, Primate.
Application	Flow Cytometry, IP, IHC-F, WB
Clonality	Monoclonal Ber-ACT8
Formulation	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage Instructions	Store at 2-8°C. Do not freeze.
Host	Mouse
Uniprot ID	P38570

### Technical Details

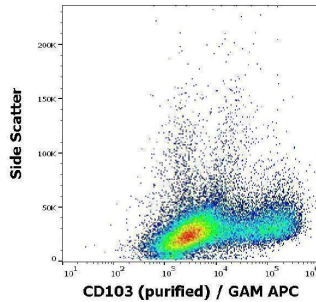
Immunogen	HTLV-1 induced human T cell line MAPS16. The mouse monoclonal antibody Ber-ACT8 recognizes an extracellular epitope of CD103 (alpha E integrin), a type I transmembrane glycoprotein primarily found on intestinal intraepithelial lymphocytes.
Predicted Reactive Species	Primate
Cross Reactivity	As in case with other anti-CD170 antibodies, this antibody cross-reacts with Siglec-14, whose first two Ig domains are almost identical to those of CD170.
Isotype	Mouse IgG1 kappa
Form	Liquid
Concentration	1 mg/ml

Purification	Purified by protein-A affinity chromatography.
Suggested Dilutions	Flow cytometry: 1-4 ug/ml.

## Anti-Hu CD103 Purified ITGAE Monoclonal Antibody (M07091-1) Images



Separation of human CD103 positive cells (red-filled) from CD103 negative cells (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood using anti-human CD103 (Ber-ACT8) purified antibody (concentration in sample 3 µg/ml, GAM APC).



Flow cytometry surface staining pattern of human PHA stimulated peripheral blood mononuclear cells stained using anti-human CD103 (Ber-ACT8) purified antibody (concentration in sample 3 µg/ml, GAM APC).

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