**OriGene Technologies, Inc.**
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

# Product datasheet for AM26142FC-N

## Integrin alpha E (ITGAE) Mouse Monoclonal Antibody [Clone ID: Ber-ACT8]

### Product data:

| | |
|---|---|
| **Product Type:** | Primary Antibodies |
| **Clone Name:** | Ber-ACT8 |
| **Applications:** | FC |
| **Recommended Dilution:** | Flow Cytometry analysis of human blood cells using 4 µl reagent / 100 µl of whole blood or 10e6 cells in a suspension. |
| **Reactivity:** | Human, Primate |
| **Host:** | Mouse |
| **Isotype:** | IgG1 |
| **Clonality:** | Monoclonal |
| **Immunogen:** | HTLV-1 induced human T cell line MAPS16 |
| **Specificity:** | This antibody detects CD103 (alpha E integrin), a type I transmembrane glycoprotein primarily found on intestinal intraepithelial lymphocytes. |
| **Formulation:** | Phosphate buffered saline (PBS) containing 15 mM sodium azide and 0.2% (w/v) high-grade protease free Bovine Serum Albumin (BSA) as a stabilizing agent<br>Label: FITC<br>State: Liquid purified Ig fraction<br>Label: Conjugated with Fluorescein isothiocyanate under optimum conditions |
| **Conjugation:** | FITC |
| **Storage:** | Store the antibody at 2 - 8 °C. DO NOT FREEZE! This product is photosensitive and should be protected from light. |
| **Stability:** | Shelf life: one year from despatch. |
| **Gene Name:** | integrin subunit alpha E |
| **Database Link:** | Entrez Gene 3682 Human<br>P38570 |

View online »

**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.

**Synonyms:** Integrin alpha-E, Integrin alpha-IEL, HML-1 antigen, ITGAE

**Protein Families:** Druggable Genome, ES Cell Differentiation/IPS, Transmembrane

**Protein Pathways:** Regulation of actin cytoskeleton