

Product datasheet for **AM26142PU-N**

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

Product data:

Product Type:	Primary Antibodies
Clone Name:	Ber-ACT8
Applications:	FC, IHC, IP, WB
Recommended Dilution:	Flow cytometry. Immunoprecipitation. Western blot. Immunohistochemistry (frozen sections).
Reactivity:	Human, Primate
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	HTLV-1 induced human T cell line MAPS16
Specificity:	This antibody recognizes CD103 (alpha E integrin), a type I transmembrane glycoprotein primarily found on intestinal intraepithelial lymphocytes.
Formulation:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4 State: Aff - Purified State: Liquid Ig fraction
Concentration:	lot specific
Purification:	Protein-A affinity chromatography (> 95% pure by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store the antibody at 2 - 8 °C up to one month or (in aliquots) at -20 to -70 °C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	integrin subunit alpha E
Database Link:	Entrez Gene 3682 Human P38570



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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