



## Cat nr AE00183

## Product Datasheet

Mouse Monoclonal Antibody, clone ITGAE/2474 to:

### CD103, Integrin alpha E

integrin subunit alpha E; integrin alpha-E; integrin  $\alpha$  E; CD103; HUMINAE; HML-1 antigen; Integrin alpha-IEL; Mucosal lymphocyte 1 antigen; CD\_antigen: CD103

Cellular localization Plasma membrane, cell surface

Official Symbol (Gene) ITGAE  
GenelD 3682  
SwissProt P38570

Confirmed Applications IHC, PA  
Positive controls Tonsil, colon, small intestine  
Aeonian Rating<sup>®</sup> 80

Purification By Protein A from bioreactor concentrate  
Formulation  200ug IgG/ml in PBS, 0.05% BSA, 0.05% azide (20ug or 100ug)  
 1mg IgG/ml in PBS (100ug or contact us for quotation)  
Amount  20ug  100ug  
Isotype Mouse IgG2b, kappa  
Confirmed species reactivity Human  
Immunogen Recombinant fragment of human CD103 protein (exact sequence is proprietary)  
Epitope Unknown

Storage instructions Avoid repeated freeze/thaw cycles. For long term storage, keep small aliquots at -20C or -80C and keep one aliquot at 4C for daily experimentations. Azide will preserve antibody at 4C for 6-12 months, when kept away from direct sun light.

Expiration Integrity warranted for 24 months after purchase when handled and stored according to instructions, see below.

Warranty This product is only warranted for the specifications as described in this product sheet and only when the product is handled and stored according to instructions. User should validate this antibody in the application and tissue/cell type as required, after confirmation of integrity upon receipt is obtained by reproducing the performance as described below. Should such confirmation not be attempted, any warranty is void. In case of non-conformance, user needs to contact us immediately for replacement or refund.

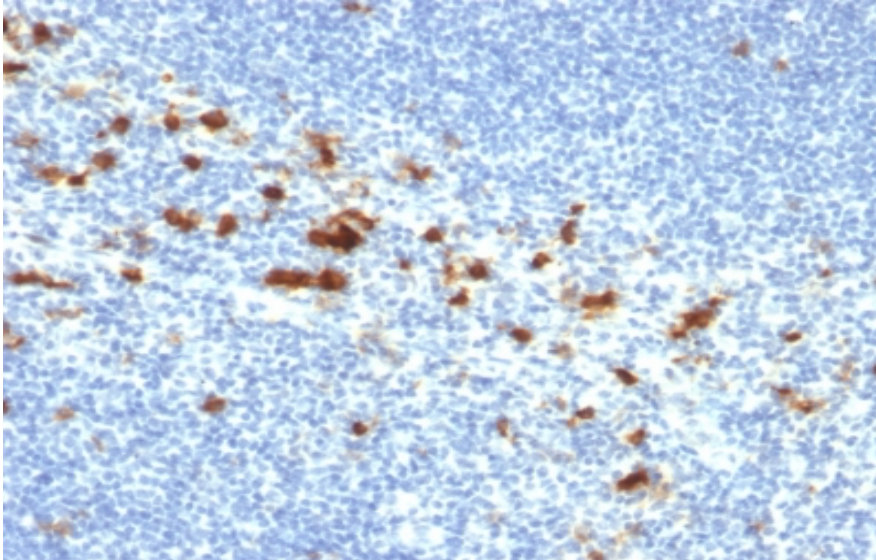
Liability This product is for in vitro research use only. Any other applications, such as diagnostics or therapeutics, or in vivo experiments, and the validation of this product therein, are solely at the responsibility of the buyer/user.

Product performance see next pages

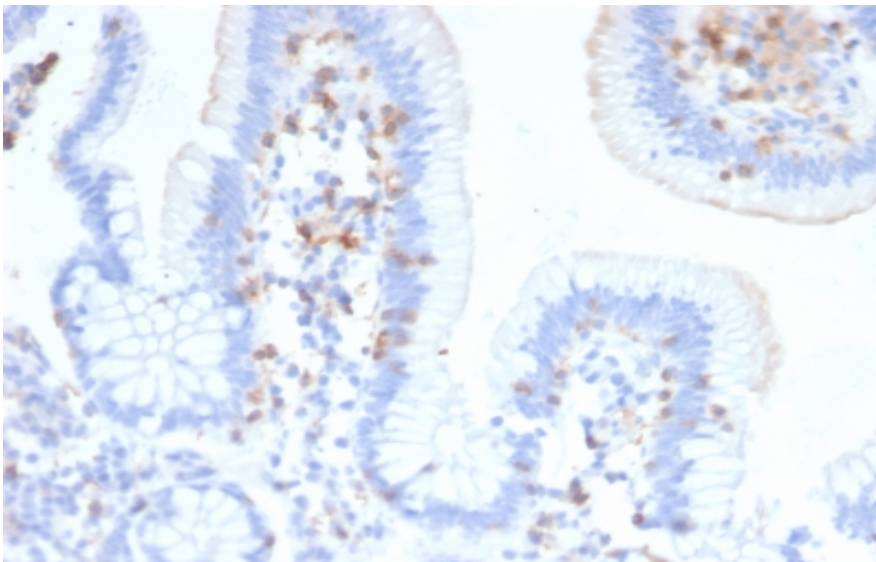
**Product data:**

**ImmunoHistoChemistry (IHC):**

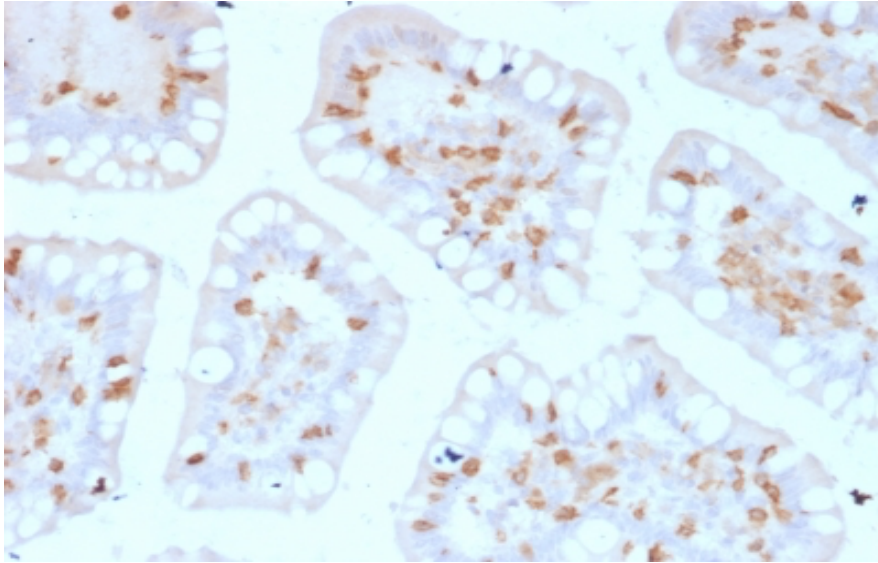
This product shows staining of T-cells in human tonsil, small intestine and colon sections. Recommended concentration: 1-3ug/ml



Formaldehyde-fixed, paraffin-embedded human tonsil stained with CD103 Mouse Monoclonal Antibody AE00183 at 1-2ug/ml for 30 minutes at RT. Epitope retrieval: Boiling at pH6 for 10-20 min followed by 20 min cooling. DAB staining by HRP polymer.

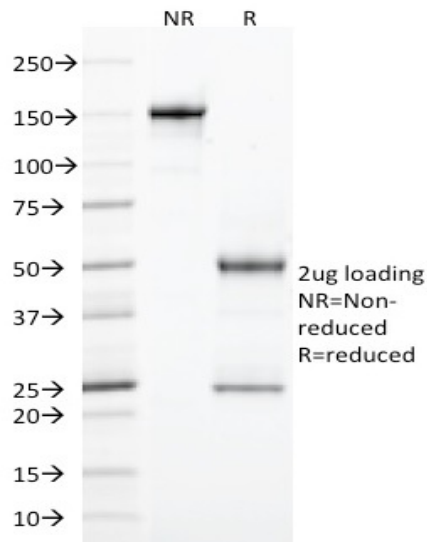


Formaldehyde-fixed, paraffin-embedded human small intestine stained with CD103 Mouse Monoclonal Antibody AE00183 at 1-2ug/ml for 30 minutes at RT. Epitope retrieval: Boiling at pH6 for 10-20 min followed by 20 min cooling. DAB staining by HRP polymer.



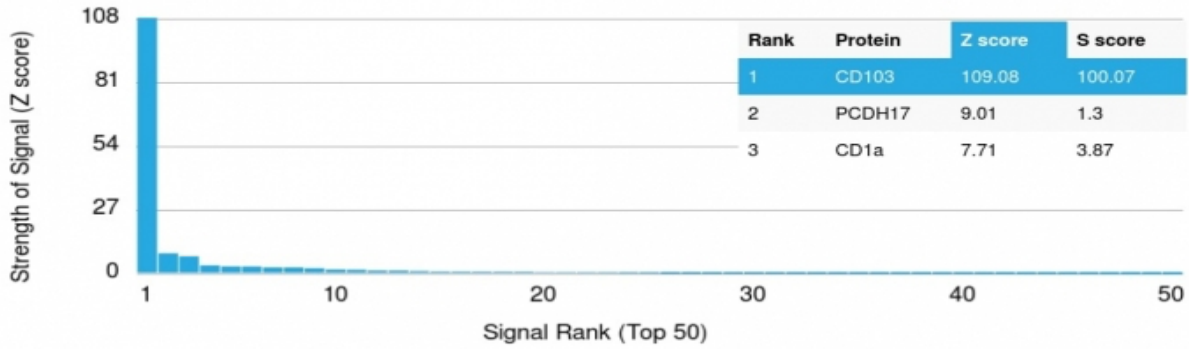
Formaldehyde-fixed, paraffin-embedded human colon stained with CD103 Mouse Monoclonal Antibody AE00183 at 1-2ug/ml for 30 minutes at RT. Epitope retrieval: Boiling at pH6 for 10-20 min followed by 20 min cooling. DAB staining by HRP polymer.

### SDS-PAGE Analysis of Purified CD103 Mouse Monoclonal Antibody AE00183. Confirmation of Purity and Integrity of Antibody.



Integrity of the purified antibody AE00183 under non-reduced and reduced conditions, showing intact IgG at around 150kDa (NR) and intact heavy and light chains at 50kDa and 25kDa resp. (R).

Specificity and selectivity of AE00183 to CD103 were tested against >19,000 full-length human proteins on a human protein array. A protein BLAST search against H. sapiens revealed no closely related other proteins.



Cross-reactivity assessment of CD103 Mouse Monoclonal Antibody AE00183 (1ug/ml) on CDI's Protein Array containing more than 19,000 full-length human proteins.

The Z-score represents the strength of a signal that an antibody (through a fluorophore-tagged secondary reagent) produces when binding to a particular protein on the array. Z-scores are in units of standard deviations (SD's) above the mean value of all signals generated on that array. When Z-scores are arranged in descending order, the difference between two successive values will be the S-score for the first. Thus, the S-score represents the relative specificity of the antibody to its intended target. An antibody is considered specific to its intended target, when it has an S-score of at least 2.5. For example, if an antibody binds to intended protein X with a Z-score of 43 and to the cross-reacting protein Y with a next Z-score of 14, then the S-score for the antibody to intended target X equals 29 (43-14).