

## 36-2602: Anti-CD103 / Integrin alpha E (T-Cell Lymphoma & Hairy Cell Leukemia Marker) Monoclonal Antibody(Clone: ITGAE/2474)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	ITGAE/2474
<b>Application :</b>	IHC
<b>Reactivity :</b>	Human
<b>Gene :</b>	ITGAE
<b>Gene ID :</b>	3682
<b>Uniprot ID :</b>	P38570
<b>Alternative Name :</b>	CD103; Human mucosal lymphocyte antigen 1 (HML1 antigen); Integrin alpha E heavy chain; Integrin alpha E light chain; Integrin alpha E, epithelial-associated; Integrin alpha E1; Integrin alpha-IEL (intestinal intraepithelial lymphocytes); Integrin alpha M290; Integrin alpha-E heavy chain; Integrin, alpha E (ITGAE)
<b>Isotype :</b>	Mouse IgG2b, kappa
<b>Immunogen Information :</b>	Recombinant human ITGAE protein fragment (exact sequence is proprietary)

### Description

This MAb recognizes a protein of 150kDa, identified as CD103, which is the alpha-E integrin subunit of the heterodimeric alpha-E beta-7 (aEb7) integrin belonging to a small beta-7 integrin subfamily. CD103 is expressed on more than 95% of intraepithelial CD8+ cells and on 40% of mucosa-associated T cells, whereas less than 2% of resting blood lymphocytes are CD103-positive. In several malignant conditions, such as T-cell lymphomas and hairy cell leukemia (HCL), the cells express CD103. Antibody to CD103 is an extremely useful addition to the IHC panel for the diagnosis of hairy cell leukemia (HCL).

### Product Info

<b>Amount :</b>	20 µg / 100 µg
<b>Content :</b>	200 µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
<b>Storage condition :</b>	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous.

### Application Note

Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT),(Staining of formalin-fixed tissues is enhanced by boiling tissue sections in 10mM Tris with 1mM EDTA, pH 9.0 for 10-20 min followed by cooling at RT for 20 minutes),

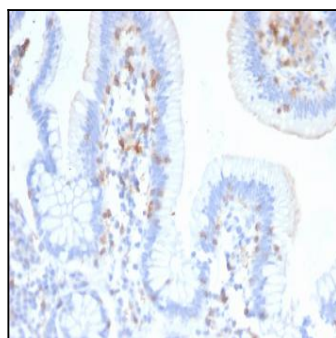


Fig. 1: Formalin-fixed, paraffin-embedded human Small Intestine stained with CD103 Mouse Monoclonal Antibody (ITGAE/2474).

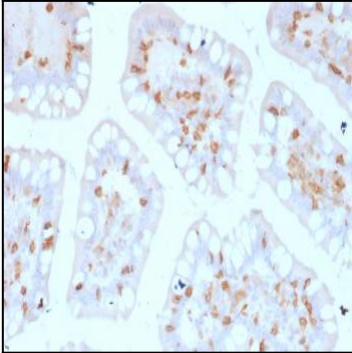


Fig. 2: Formalin-fixed, paraffin-embedded human Colon stained with CD103 Mouse Monoclonal Antibody (ITGAE/2474).

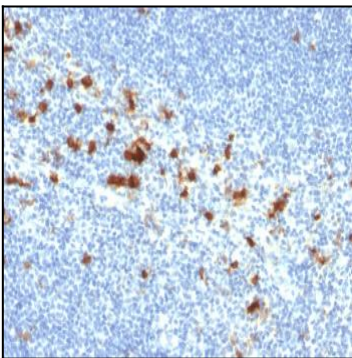


Fig. 3: Formalin-fixed, paraffin-embedded human Tonsil stained with CD103 Mouse Monoclonal Antibody (ITGAE/2474).

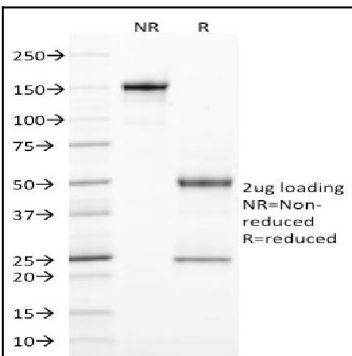


Fig. 4: SDS-PAGE Analysis Purified CD103 Mouse Monoclonal Antibody (ITGAE/2474). Confirmation of Purity and Integrity of Antibody.

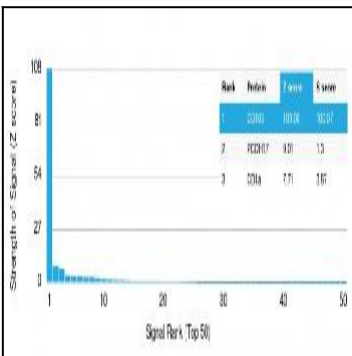


Fig. 5: Analysis of Protein Array containing more than 19,000 full-length human proteins using CD103 Mouse Monoclonal Antibody (ITGAE/2474). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.