

Mouse CD103/Integrin alpha E Monoclonal Antibody | anti-CD103 antibody

CD103/Integrin alpha E (T-Cell Lymphoma & Hairy Cell Leukemia Marker)

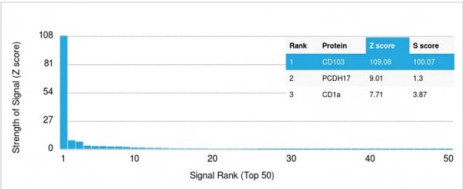
CATALOG # AAA214659	HOST Mouse	REACTIVITY Human. Others not known.	APPLICATIONS Immunohistochemistry
-------------------------------	----------------------	---	---

PRODUCT SYNONYMS

CD103/Integrin alpha E; Monoclonal Antibody; CD103/Integrin alpha E (T-Cell Lymphoma & Hairy Cell Leukemia Marker); 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); anti-CD103 antibody

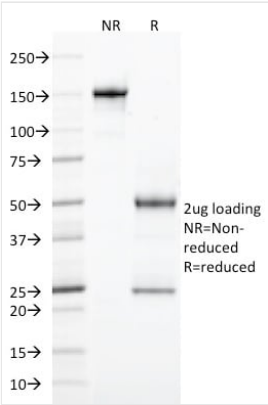
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human. Others not known.
Clonality	Monoclonal
Isotype	IgG2b, kappa
Clone Number	ITGAE/2474
Specificity	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 hairy cell leukemia (HCL).
Form/Format	200ug/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.
Sequence Length	1179
Applicable Applications for anti-CD103 antibody	IHC (Immunohistochemistry)
Immunogen	Recombinant human ITGAE protein fragment
Cellular Localization	Cell Surface and Cytoplasmic
Hu-chromosome Location	17p13
Positive Control	Tonsil, Colon or Stomach



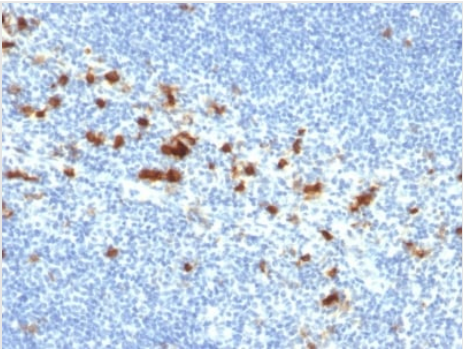
Application Data

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 be 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.



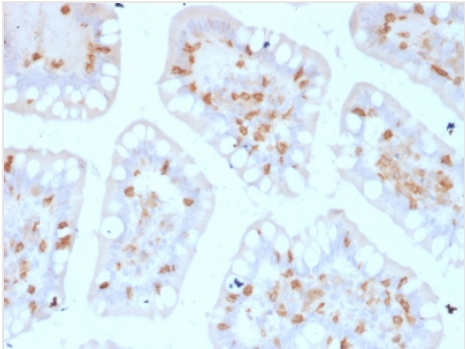
SDS_PAGE

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



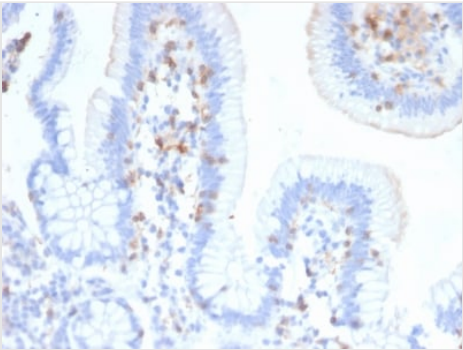
IHC (Immunohistochemistry)

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



IHC (Immunohistochemistry)

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



IHC (Immunohistochemistry)

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

ADDITIONAL INFORMATION

References	Morgan EA, Yu H, Pinkus JL, Pinkus GS. Immunohistochemical detection of hairy cell leukemia in paraffin sections using a highly effective CD103 rabbit monoclonal antibody. Am J Clin Pathol. 2013 Feb; 139(2):220-30.
------------	--

NCBI AND UNIPROT INFORMATION

NCBI GI #	148728188
NCBI GeneID	3682
NCBI Accession #	NP_002199.3

NCBI GenBank Nucleotide #	NM_002208.4
UniProt Accession #	P38570; Q17RS6; Q9NZU9
Molecular Weight	150kDa
NCBI Official Full Name	integrin alpha-E
NCBI Official Synonym Full Names	integrin subunit alpha E
NCBI Official Symbol	ITGAE
NCBI Official Synonym Symbols	CD103; HUMINAE
NCBI Protein Information	integrin alpha-E
UniProt Protein Name	Integrin alpha-E
UniProt Gene Name	ITGAE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/monoclonal/cd103-integrin-alpha-e-antibody-clone-itgae-2474-immunohistochemistry-elisa/214659>