CD103 / Integrin ?E?7 (T-Cell Lymphoma & Hairy Cell Leukemia Marker) Antibody

Mouse Monoclonal Antibody [Clone ITGAE/2063]

Catalog No	Format	Size
3682-MSM3-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
3682-MSM3-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
3682-MSM3-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

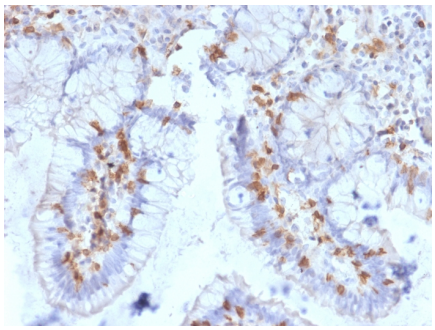
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

Product Details

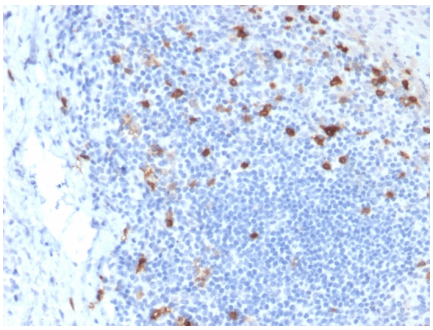
Clone	ITGAE/2063
Gene Name	ITGAE
Immunogen	Recombinant human ITGAE/CD103 protein fragment (aa 775-855) (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2c / Kappa
Mol. Weight of Antigen	150kDa
Cellular Localization	Membrane
Species Reactivity	Human
Positive Control	Colon or Stomach, Tonsil

**Optimal dilution for a specific application should be determined.*

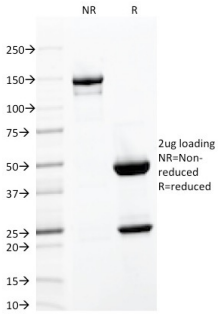
Product Images for CD103 / Integrin ?E?7 (T-Cell Lymphoma & Hairy Cell Leukemia Marker) Antibody



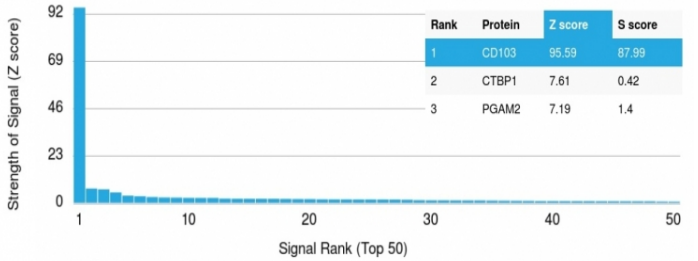
Formalin-fixed, paraffin-embedded human Small Intestine stained with CD103 Mouse Monoclonal Antibody (ITGAE/2063).



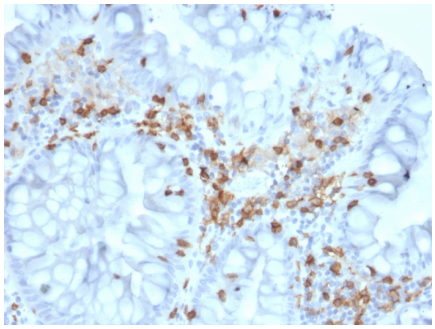
Formalin-fixed, paraffin-embedded human Tonsil stained with CD103 Mouse Monoclonal Antibody (ITGAE/2063).



SDS-PAGE Analysis Purified CD103 Mouse Monoclonal Antibody (ITGAE/2063). Confirmation of Purity and Integrity of Antibody.



Analysis of Protein Array containing more than 19,000 full-length human proteinsusing CD103 Mouse Monoclonal Antibody (ITGAE/2063). 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 HuProtTM 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 HuProtTM 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.



Formalin-fixed, paraffin-embedded human Colon stained with CD103 Mouse Monoclonal Antibody (ITGAE/2063).

Specificity & Comments

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).

Supplied As

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.

Storage and Stability

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. No MSDS required.

Research Areas

AKT Signaling, Dendritic Cell Marker

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

2 Union Square, Union City, CA 94587, Tel: 1-866-2-NEOBIO (1-866-263-6246)
orders@NeoBiotechnologies.com, www.NeoBiotechnologies.com

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