

**Rabbit Anti-CD103/Integrin alpha E [MD185R]: RM0019, RM0019RTU7**

**Intended Use:** For Research Use Only

**Description:** CD103, also known as integrin alpha E (ITGAE), is an integrin protein that in humans is encoded by the ITGAE gene. It binds integrin beta 7 to form the complete heterodimeric molecular  $\alpha E\beta 7$  that binds to an extracellular matrix component and cellular counter receptor. They mediate cell adhesion, migration and signaling and are important for T lymphocyte localization. CD103 is expressed on intraepithelial lymphocytes in mucosal areas, including lung and GI tract. In malignancies, CD103 is present on all enteropathy-type T-cell lymphomas. Additionally, CD103 has been a useful marker for hairy cell leukemia.

**Specifications:**

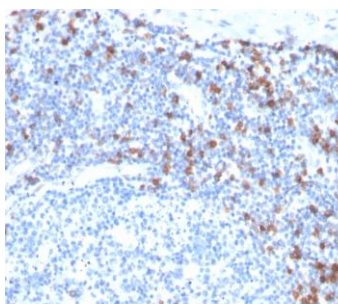
Clone: MD185R  
 Source: Rabbit  
 Isotype: IgG  
 Reactivity: Human  
 Immunogen: Recombinant human ITGAE/CD103 protein fragment aa 775-855  
 Localization: Membrane, cytoplasm  
 Formulation: Purified antibody in PBS pH7.4, containing BSA, and  $\leq 0.09\%$  sodium azide (NaN<sub>3</sub>)  
 Storage: Store at 2°- 8°C  
 Applications: IHC  
 Package:

Description	Catalog No.	Size
CD103/Integrin alpha E Concentrated	RM0019	1 ml
CD103/Integrin alpha E Prediluted	RM0019RTU7	7 ml

**IHC Procedure\*:**

Positive Control Tissue: Hairy cell leukemia  
 Concentrated Dilution: 50-200  
 Pretreatment: Tris EDTA pH9.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C  
 Incubation Time and Temp: 30-60 minutes @ RT  
 Detection: Refer to the detection system manual

\* Result should be confirmed by an established diagnostic procedure.



FFPE human tonsil stained with anti-CD103 using DAB

**References:**

1. Fetal CD103+ IL-17-Producing Group 3 Innate Lymphoid Cells Represent the Dominant Lymphocyte Subset in Human Amniotic Fluid. Marquardt N, et al. J Immunol 197:3069-3075, 2016.
2. Tumor-infiltrating lymphocytes expressing the tissue resident memory marker CD103 are associated with increased survival in high-grade serous ovarian cancer. Webb JR, et al. Clin Cancer Res 20:434-44, 2014.
3. Immunohistochemical detection of hairy cell leukemia in paraffin sections using a highly effective CD103 rabbit monoclonal antibody. Morgan EA, et al. Am J Clin Pathol 139:220-30, 2013.

Doc. 100-RM0019  
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