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DATA SHEET

Rabbit Anti-CD103/Integrin alpha E [EPR22590-27]: 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 αEβ7 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:	EPR22590-27
Source:	Rabbit
Isotype:	IgG
Reactivity:	Human
Immunogen:	Recombinant fragment of human CD103 aa 650-1000
Localization:	Membrane, cytoplasm
Formulation:	Purified ascites in PBS pH7.4, containing BSA, and ≤ 0.09% sodium azide (NaN3)
Storage:	Store at 2°- 8°C
Applications:	IHC

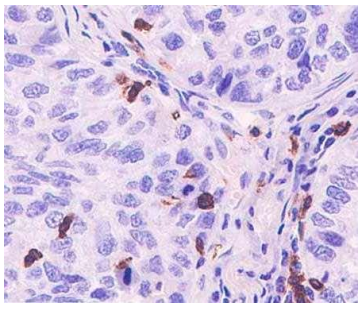
Package:

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:	25-200
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 lung carcinoma 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.

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