

Mouse Anti-CD7 [MD146]: MC0274, MC0274RTU7

Intended Use: For Research Use Only

Description: CD7 is a single-pass type 1 transmembrane protein that is a member of the immunoglobulin superfamily. It plays an essential role in T-cell interactions and also in T-cell/B-cell interactions during early lymphoid development. CD7 is expressed on thymocytes, T- and natural killer cells, and progenitors of lymphoid and myeloid cells. It is also expressed on T-cell Acute Lymphoblastic Leukemia/Lymphoma, Acute Myelogenous Leukemia and Chronic Myelogenous Leukemia. CD7 antibody is the most sensitive and specific T-cell deletion marker. Loss of CD7 expression by neoplastic lymphocytes is considered a distinguishing characteristic of mycosis fungoides (MF) and cutaneous T-cell lymphoma.

Specifications:

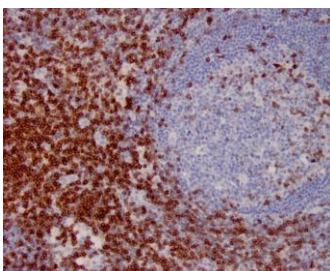
Clone: MD146
Source: Mouse
Isotype: IgG1k
Reactivity: Human
Immunogen: Human CD7 recombinant fragment around aa 72-175
Localization: Membrane
Formulation: Antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN₃)
Storage: Store at 2°- 8°C
Applications: IHC, WB
Package:

Description	Catalog No.	Size
CD7 Concentrated	MC0274	1ml
CD7 Prediluted	MC0274RTU7	7ml

IHC Procedure*:

Positive Control Tissue: Tonsil, cecum
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 lymph node stained with anti-CD7 using DAB

References:

1. Targetable vulnerabilities in T- and NK-cell lymphomas identified through preclinical models. Ng SY, et al. Nat Commun 9:2024, 2018.
2. Distinct T and NK cell populations may serve as immune correlates of protection against symptomatic pandemic influenza A(H1N1) virus infection during pregnancy. Savic M et al. PLoS One. 2017.
3. Clinicopathologic and molecular characterization of myeloid neoplasms with isolated t(6;9)(p23;q34), Visconte V et al. Int J Lab Hematol. 2017.

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Rev. B