

**Rabbit Anti-TdT [MD154R]: RM0305, RM0305RTU7**

**Intended Use:** For Research Use Only

**Description:** Terminal deoxynucleotidyl transferase (TdT) is a unique DNA polymerase that changes the addition of deoxynucleoside 5'-triphosphate to the 3'-end of a DNA initiator without template direction. TdT contributes to the generation of junctional diversity in antigen receptors of immature lymphocytes. TdT is expressed in lymphoid precursors of B- and T-cell lineage in thymus and bone marrow. Foci of TdT positive cells may be observed in peripheral lymphoid tissues. TdT is also present in malignant tumors of lymphoblastic lineage and thymoma. It is a sensitive and specific marker for lymphoblastic lymphoma/leukemia.

**Specifications**

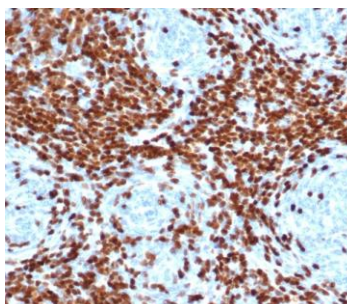
Clone:	MD154R
Source:	Rabbit
Isotype:	IgG
Reactivity:	Human
Immunogen:	Synthetic peptide corresponding to residues within aa1-100 of human TdT
Localization:	Nucleus
Formulation:	Antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN <sub>3</sub> )
Storage:	Store at 2°- 8°C
Applications:	IHC
Package:	

Description	Catalog No.	Size
TdT Concentrated	RM0305	1 ml
TdT Prediluted	RM0305RTU7	7 ml

**IHC Procedure**

Positive Control Tissue:	Thymoma, thymus
Concentrated Dilution:	50-200
Pretreatment:	Tris EDTA pH9.0, 15 minutes Pressure Cooker or 30-60 minutes 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 thymus stained with anti-TdT using DAB

**References:**

1. Terminal deoxynucleotidyl transferase requires KU80 and XRCC4 to promote N-addition at non-V(D)J chromosomal breaks in non-lymphoid cells. Boubakour-Azzouz I, et al. Nucleic Acids Res 40:8381-91, 2012.
2. Evidence for a stepwise program of extrathymic T cell development within the human tonsil. McClory S, et al. J Clin Invest 122:1403-15, 2012.

Doc. 100-RM0305  
Rev. B