



TdT Classification of leukemias or lymphomas

Alternative Name: TdT; DNNT; Terminal transferase; Terminal addition enzyme

Application: Intracellular staining (flow cytometry)

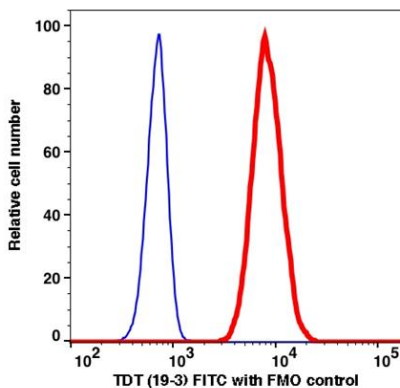
CLINICAL INFORMATION

Terminal deoxynucleotidyl transferase (TdT) is a nuclear enzyme that adds individual nucleotides to the termini of DNA strands without the use of a DNA template. TdT is expressed normally in cortical thymocytes, immature hematopoietic stem cells, and B and T lymphoblasts. Diagnostically, TdT positivity can be helpful in confirming a diagnosis of lymphoblastic lymphoma or leukemia. Acute myeloid leukemias can also express TdT.

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TdT FITC (Cat:109315)	MPO FITC (Cat:112315)	CD79a PE (Cat:115125)
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Live Reh gated cells intracellularly stained with TDT (19-3) FITC (**RED**); Live Reh gated cells are used as FMO control (**BLUE**).

References:

1. Arber DA, Jenkins KA: Paraffin section immunophenotyping of acute leukemias in bone marrow specimens. Am J Clin Pathol 1996;106(4):462-468
2. Kang LC, Dunphy CH: Immunoreactivity of MIC2 (CD99) and terminal deoxynucleotidyl transferase in bone marrow clot and core specimens of acute myeloid leukemias and myelodysplastic syndromes. Arch Pathol Lab Med 2006;130:153-157
3. O;Malley DP, Young SK, Perkins SL, et al: Morphologic and immunohistochemical evaluation of splenic hematopoietic proliferations in neoplastic and benign disorders. Mod Pathol 2005;18:1550-1561
4. Pileri SA, Ascani S, Milani M, et al: Acute leukaemia immunophenotyping in bone-marrow routine sections. Br J Hematol 1999;105:394-401