

# TdT (ZR446)

## Rabbit Monoclonal Antibody

**Host:** Rabbit  
**Specificity:** Human  
**Immunogen:** Recombinant fragment (around aa 52-192) of human DNMT protein  
**Ig Class:** IgG  
**Storage:** Store at 2-8°C for up to 2 years for concentrate form and 18 months for predilute form.

**Specifications:** TdT (ZR446) Rabbit Monoclonal primary antibody detects TdT protein in formalin-fixed, paraffin-embedded samples by immunohistochemical (IHC) staining.

Staining procedures: Use formalin-fixed and paraffin-embedded sections. Retrieval conditions: Pretreatment of deparaffinized samples via heat-induced epitope retrieval is recommended. Detection method: Polymer anti-mouse/rabbit Ig detection system. Working dilution: 1:100-200. Positive Control: sample known to contain TdT protein.

**Localization:** Nucleus.

**Intended Use:** Research Use Only (RUO). This antibody is not for diagnostic use.

**Description:** Terminal deoxynucleotidyl transferase (TdT) is an unusual deoxynucleotide polymerizing enzyme with a molecular weight of about 58 kDa found normally only in B- and T-cell lymphoblasts/prelymphocytes. TdT generates antigen receptor diversity by synthesizing non-germ line elements (N-regions) at the junctions of rearranged Ig heavy chain and T cell receptor gene segments. Rare TdT-positive cells are regularly detected in the thymus and bone marrow. Typically, TdT expression in the thymus is very variable from cell to cell since it is rapidly decreased in more mature T-cells. TdT-positive cells may occasionally be found in tonsils, lymph nodes, and extranodal lymphoid tissue. Detection of TdT protein is indicative in the classification of malignant lymphomas and acute leukemias, particularly in pre-B and pre-T acute lymphoblastic leukemia/lymphoblastic lymphoma (ALL/LBL).

**Supplied As:** Purified antibody in Tris-HCl pH 7.4 buffer containing stabilizing proteins (including < 1% Bovine Serum Albumin) and < 0.1% ProClin by volume.

### References:

1. Motea EA, et al. Biochimica et Biophysica Acta. 2010; 1804:1151-66.
2. Suzumiya J, et al. J Pathol. 1997; 182:86-91.
3. Arber DA, et al. Am J Clin Pathol. 1996; 106:462-8.



Z2802RL/ Z2802RS/ Z2802RT/ Z2802RP (1.0ml Concentrate/ 0.5ml Con./ 0.1ml Con./ 7ml Pre-dil)



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