

Product datasheet for **AP23384PU-N**

TdT (DNNT) (C-term) Rabbit Polyclonal Antibody

Product data:

| | |
|------------------------|--|
| Product Type: | Primary Antibodies |
| Applications: | WB |
| Recommended Dilution: | Western blot: 1 µg/ml. |
| Reactivity: | Human, Mouse, Rat |
| Host: | Rabbit |
| Isotype: | IgG |
| Clonality: | Polyclonal |
| Immunogen: | A synthetic peptide corresponding to a sequence at the C-terminal of human TDT |
| Specificity: | This antibody detects DNNT / TDT at C-term. |
| Formulation: | 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg Na ₃ N State: Aff - Purified State: Lyophilized Ig fraction |
| Reconstitution Method: | 0.2ml of distilled water will yield a concentration of 500µg/ml. |
| Purification: | Immunogen affinity purified |
| Conjugation: | Unconjugated |
| Storage: | Store at 2 - 8 °C for up to one month or (in aliquots) at -20 °C for longer. Avoid repeated freezing and thawing. |
| Stability: | Shelf life: one year from despatch. |
| Gene Name: | DNA nucleotidyltransferase |
| Database Link: | Entrez Gene 21673 Mouse Entrez Gene 294051 Rat Entrez Gene 1791 Human P04053 |



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Background:

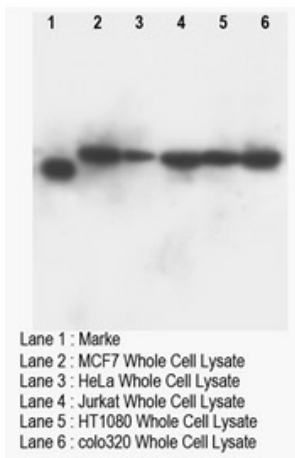
Terminal Deoxynucleotidyl Transferase, also known as TdT and terminal transferase, is a unique DNA polymerase without template direction catalyzes the addition of deoxyribonucleotides onto the 3-prime-hydroxyl end of DNA primers.¹ Its gene is mapped to the region 10q23-q24.2 And TDT Cdna contains an open reading frame of 1,530 basepairs corresponding to a protein containing 510 amino acids.³ TDT may be responsible for inserting nucleotides (N regions) at the V(H)-D and D-J(H) junctions of immunoglobulin genes. The enzyme is present in immature thymocytes, some bone marrow cells, transformed pre-B and pre-T cell lines, and leukemia cells. Additionally, TdT catalyses the addition of nucleotides to the 3' terminus of a DNA molecule. Unlike most DNA polymerases it does not require a template. The preferred substrate of this enzyme is a 3'-overhang, but it can also add nucleotides to blunt or recessed 3' ends. Cobalt is a necessary cofactor.

Synonyms:

DNA nucleotidyltransferase

Protein Pathways:

Hematopoietic cell lineage, Non-homologous end-joining

Product images:

Western blot with TdT Polyclonal Antibody