

**TDT Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP14478a****Specification**

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**TDT Antibody (N-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">P04053</a>
Other Accession	<a href="#">P09838</a> , <a href="#">P06526</a> , <a href="#">NP_001017520.1</a> , <a href="#">NP_004079.3</a>
Reactivity	Human
Predicted	Bovine, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	58536
Antigen Region	42-70

**TDT Antibody (N-term) - Additional Information****Gene ID** 1791**Other Names**

DNA nucleotidyltransferase, Terminal addition enzyme, Terminal deoxynucleotidyltransferase, Terminal transferase, DNTT, TDT

**Target/Specificity**

This TDT antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 42-70 amino acids from the N-terminal region of human TDT.

**Dilution**

WB~~1:1000

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

TDT Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**TDT Antibody (N-term) - Protein Information**

**Name** DNTT**Synonyms** TDT {ECO:0000303|PubMed:11473582}

**Function** Template-independent DNA polymerase which catalyzes the random addition of deoxynucleoside 5'-triphosphate to the 3'-end of a DNA initiator. One of the in vivo functions of this enzyme is the addition of nucleotides at the junction (N region) of rearranged Ig heavy chain and T-cell receptor gene segments during the maturation of B- and T-cells.

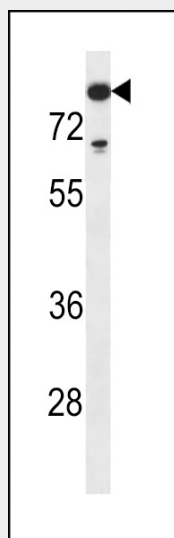
**Cellular Location**

Nucleus.

**TDT Antibody (N-term) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**TDT Antibody (N-term) - Images**

TdT Antibody (N-term) (Cat. #AP14478a) western blot analysis in MDA-MB453 cell line lysates (35ug/lane). This demonstrates the TdT antibody detected the TdT protein (arrow).

**TDT Antibody (N-term) - Background**

This gene is a member of the DNA polymerase type-X family and encodes a template-independent DNA polymerase that catalyzes the addition of deoxynucleotides to the 3'-hydroxyl terminus of oligonucleotide primers. In vivo, the encoded protein is expressed in a restricted population of normal and malignant pre-B and pre-T

lymphocytes during early differentiation, where it 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. Alternatively spliced transcript variants encoding different isoforms of this gene have been described.

#### **TDT Antibody (N-term) - References**

Kubota, T., et al. Genes Cells 12(8):941-959(2007)  
O'Malley, D.P., et al. Haematologica 91(8):1139-1140(2006)  
Grupe, A., et al. Am. J. Hum. Genet. 78(1):78-88(2006)  
Thai, T.H., et al. J. Immunol. 173(6):4009-4019(2004)  
Liu, L., et al. Am. J. Clin. Pathol. 121(6):810-815(2004)