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## Summary

<b>Production Name</b>	TdT Rabbit Polyclonal Antibody
<b>Description</b>	Rabbit Polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,IHC,IF,ELISA
<b>Reactivity</b>	Human,Rat,Mouse

## Performance

<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

## Immunogen

<b>Gene Name</b>	DNTT
<b>Alternative Names</b>	DNTT; TDT; DNA nucleotidylexotransferase; Terminal addition enzyme; Terminal deoxynucleotidyltransferase; Terminal transferase
<b>Gene ID</b>	1791.0
<b>SwissProt ID</b>	P04053.The antiserum was produced against synthesized peptide derived from human DNTT. AA range:381-430

## Application

<b>Dilution Ratio</b>	IHC-p: 100-300.WB 1:500 - 1:2000. ELISA: 1:40000.. IF 1:50-200
<b>Molecular Weight</b>	60kD

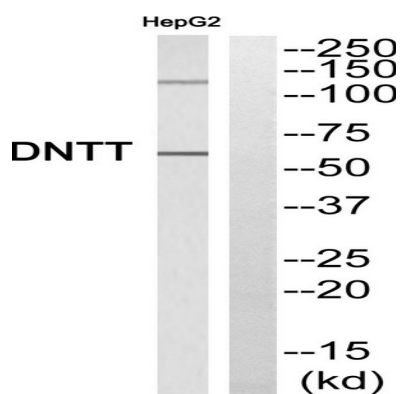
## Background

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. [provided by RefSeq, Jul 2008],catalytic activity:Deoxynucleoside triphosphate + DNA(n) = diphosphate + DNA(n+1),cofactor:Magnesium.,disease:Very high levels of enzyme activity have been detected in certain acute leukemic cells.,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.,similarity:Belongs to the DNA polymerase type-X family.,similarity:Contains 1 BRCT domain.,subunit:Interacts with PRP19 and DNNTIP1. Forms a ternary complex with DNNTIP2 and core histone. Released from this complex by PCNA.,

## Research Area

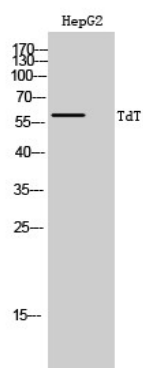
Non-homologous end-joining;Hematopoietic cell lineage;

## Image Data

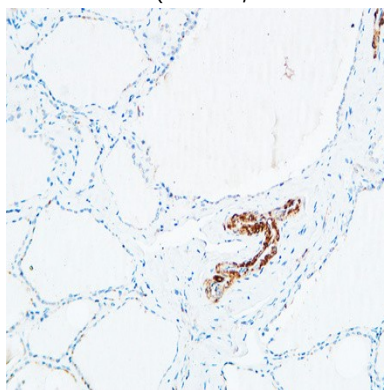


Western blot analysis of DNTT Antibody. The lane on the right is blocked with the DNTT peptide.

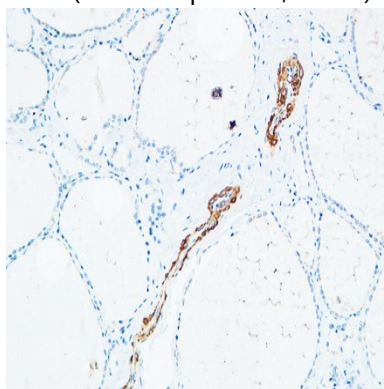
**Product Name: TdT Rabbit Polyclonal Antibody**  
**Catalog #: APRab18769**



Western Blot analysis of HepG2 cells using TdT Polyclonal Antibody cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Inventbiotech, MN, USA) .

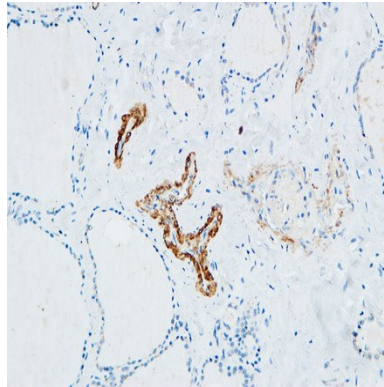


Immunohistochemical analysis of paraffin-embedded Human Thyroid. 1, Antibody was diluted at 1:200 (4°, overnight) . 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3, Secondary antibody was diluted at 1:200 (room temperature, 30min) .

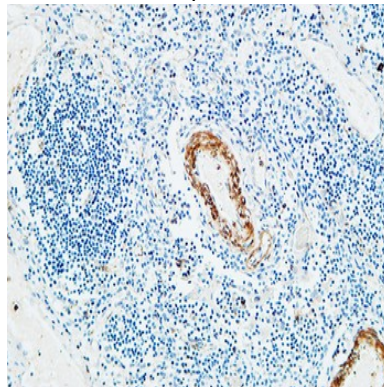


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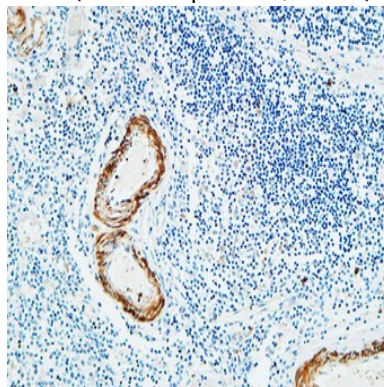
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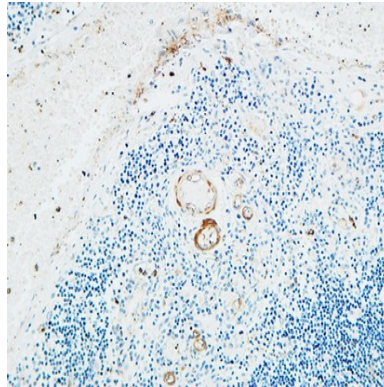


Immunohistochemical analysis of paraffin-embedded Human thymus. 1, Antibody was diluted at 1:200 (4°,overnight) . 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200 (room temperature, 30min) .



Immunohistochemical analysis of paraffin-embedded Human thymus. 1, Antibody was diluted at 1:200 (4°,overnight) . 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200 (room temperature, 30min) .

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Immunohistochemical analysis of paraffin-embedded Human thymus. 1, Antibody was diluted at 1:200 (4°, overnight) . 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3, Secondary antibody was diluted at 1:200 (room temperature, 30min) .

**Note**

For research use only.