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

For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	WB,IHC,ICC/IF,ELISA
Reactivity	Human,Rat,Mouse
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:20000-1:40000
Molecular Weight	60kDa

Antigen Information

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

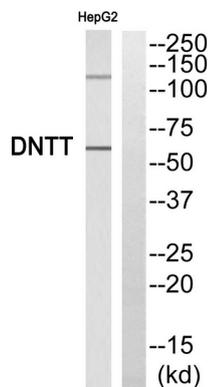
Background

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 DNTTIP1. Forms a ternary complex with DNTTIP2 and core histone. Released from this complex by PCNA.,

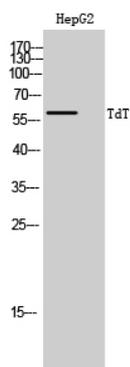
Research Area

Non-homologous end-joining;Hematopoietic cell lineage;

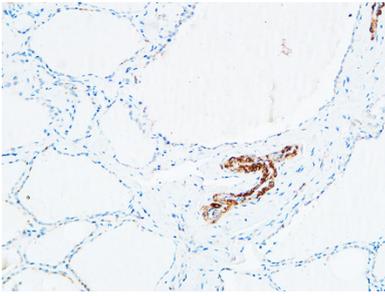
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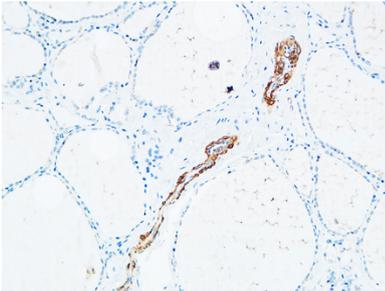
Western blot analysis of DNTT Antibody. The lane on the right is blocked with the DNTT peptide.



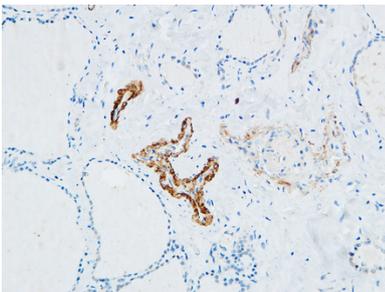
Western Blot analysis of HepG2 cells using TdT Polyclonal Antibody.



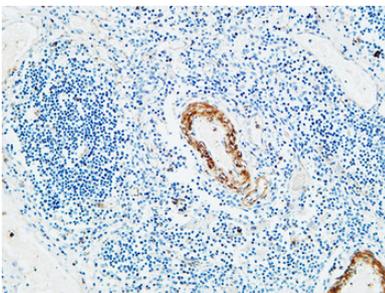
Immunohistochemical analysis of paraffin-embedded Human Thyroid. 1, Antibody was diluted at 1:200 (4°,overnight) . 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200 (room temperature, 30min) .



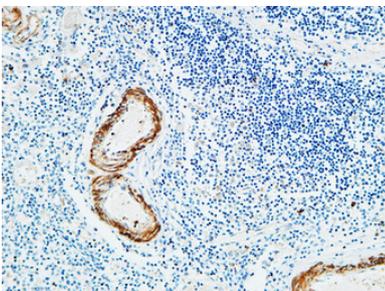
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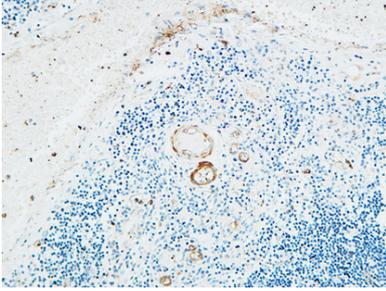
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