

TdT Polyclonal Antibody

Catalog No :	YT4594
Reactivity :	Human;Mouse
Applications :	WB;IHC;IF;ELISA
Target :	TdT
Fields :	>>Non-homologous end-joining;>>Hematopoietic cell lineage
Gene Name :	DNTT
Protein Name :	DNA nucleotidylexotransferase
Human Gene Id :	1791
Human Swiss Prot No :	P04053
Mouse Swiss Prot No :	P09838
Immunogen :	The antiserum was produced against synthesized peptide derived from human DNTT. AA range:381-430
Specificity :	TdT Polyclonal Antibody detects endogenous levels of TdT protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	IHC: 100-300.WB 1:500 - 1:2000. ELISA: 1:40000.. IF 1:50-200
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 60kD

Cell Pathway : Non-homologous end-joining;Hematopoietic cell lineage;

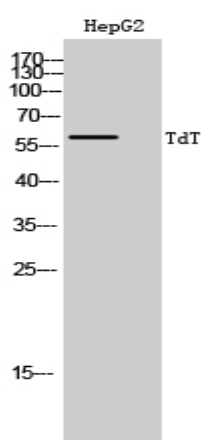
Background : This gene is a member of the DNA polymerase type-X family and encodes a template-independent DNA polymerase that catalyzes the addition of deoxynucleotides to the 3'-hydroxyl terminus of oligonucleotide primers. In vivo, the encoded protein is expressed in a restricted population of normal 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],

Function : 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.,

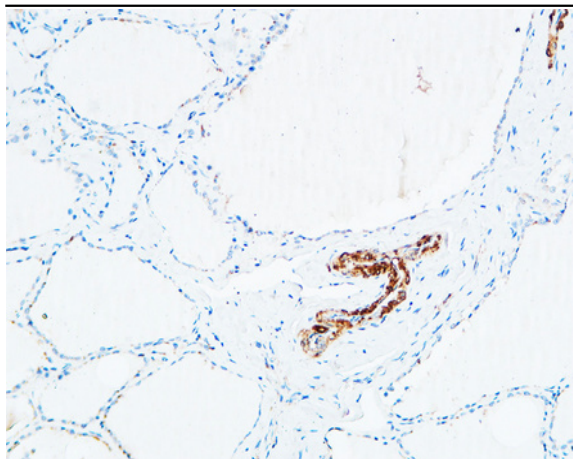
Subcellular Location : Nucleus .

Expression : Testis,Thymus,

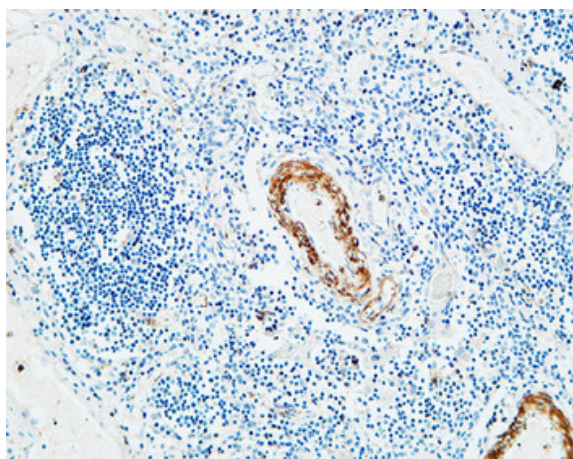
Products Images



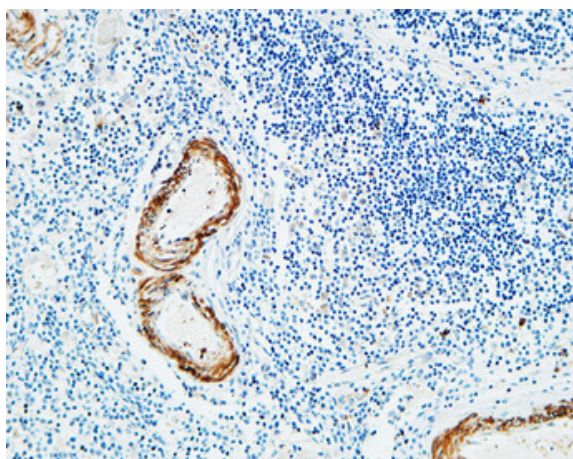
Western Blot analysis of HepG2 cells using TdT Polyclonal Antibody cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Inventbiotech, MN, USA).



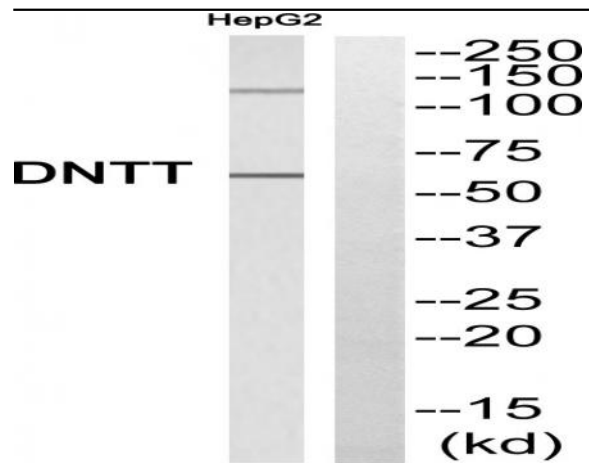
Immunohistochemical analysis of paraffin-embedded Human Thyroid. 1, Antibody was diluted at 1:200(4° overnight). 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 30min).



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