



TdT Monoclonal Antibody

Catalog No	YP-mAb-13965
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	DNTT
Immunogen	The antiserum was produced against synthesized peptide derived from human DNTT. AA range:381-430
Specificity	TdT Monoclonal Antibody detects endogenous levels of TdT protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	DNTT;DNA nucleotidylexotransferase;EC:2.7.7.31;TDT;Terminal Deoxynucleotidyl Transferase;Terminal addition enzyme;Terminal deoxynucleotidyltransferase;Terminal transferase
Observed Band	60kD
Calculated Molecular Weight	60kD
Cell Pathway	Nucleus .
Tissue Specificity	Testis,Thymus,
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 DNTTIP1. Forms a ternary complex with DNTTIP2 and core histone. Released



from this complex by PCNA.,

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],

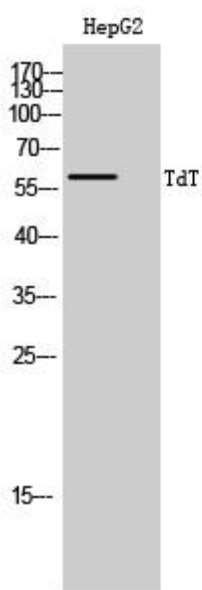
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using TdT Monoclonal Antibody