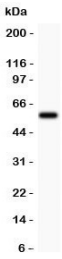
TdT Antibody / DNA nucleotidylexotransferase (R31581)

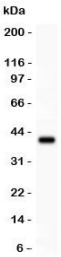
Catalog No.	Formulation	Size
R31581	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
Gene ID	1791
Applications	Western Blot : 0.5-1ug/ml
Limitations	This TdT antibody is available for research use only.



Western blot testing of TdT antibody and Jurkat lysate. Predicted molecular weight: ~56 kDa.



Western blot testing of TdT antibody and recombinant human protein (0.5ng)

Description

Terminal Deoxynucleotidyl Transferase, also known as Terminal transferase, is a unique DNA polymerase that without template direction catalyzes the addition of deoxyribonucleotides onto the 3-prime-hydroxyl end of DNA primers. Its gene is mapped to the region 10q23-q24. And TdT cDNA contains an open reading frame of 1,530 basepairs corresponding to a protein containing 510 amino acids. TdT may be responsible for inserting nucleotides (N regions) at the V(H)-D and D-J(H) junctions of immunoglobulin genes. The enzyme is present in immature thymocytes, some bone marrow cells, transformed pre-B and pre-T cell lines, and leukemia cells. Additionally, TdT catalyses the addition of nucleotides to the 3' terminus of a DNA molecule. Unlike most DNA polymerases it does not require a template. The preferred substrate of this enzyme is a 3'-overhang, but it can also add nucleotides to blunt or recessed 3' ends. Cobalt is a necessary cofactor.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the TdT antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Human partial recombinant protein (AA 316-509) was used as the immunogen for this TdT antibody.

Storage

After reconstitution, the TdT antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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