

Datasheet for ABIN3043577  
**anti-TdT antibody (AA 316-509)**[Go to Product page](#)

2 Images

9 Publications

## Overview

Quantity:	100 µg
Target:	TdT (DNNT)
Binding Specificity:	AA 316-509
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB)

## Product Details

Purpose:	Rabbit IgG polyclonal antibody for DNA nucleotidylexotransferase(DNNT) detection. Tested with WB in Human.
Immunogen:	E.coli-derived human TdT recombinant protein (Position: K316-A509). Human TdT shares 81% amino acid (aa) sequence identity with mouse TdT.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	<p>Rabbit IgG polyclonal antibody for DNA nucleotidylexotransferase(DNNT) detection. Tested with WB in Human.</p> <p>Gene Name: DNA nucleotidylexotransferase</p> <p>Protein Name: DNA nucleotidylexotransferase</p>
Purification:	Immunogen affinity purified.

## Target Details

Target:	TdT (DNNT)
Alternative Name:	DNNT ( <a href="#">DNNT Products</a> )
Background:	<p>Terminal Deoxynucleotidyl Transferase, also known as TDT and terminal transferase, is a unique DNA polymerase 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.</p> <p>Synonyms: Deoxynucleotidyltransferase terminal antibody DNA nucleotidylexotransferase antibody DNNT antibody Nucleosidetriphosphate DNA deoxynucleotidylexotransferase antibody TDT antibody TDT_HUMAN antibody Terminal addition enzyme antibody Terminal deoxynucleotidyltransferase antibody Terminal deoxyribonucleotidyltransferase antibody Terminal transferase antibody</p>
Gene ID:	1791
UniProt:	<a href="#">P04053</a>
Pathways:	<a href="#">DNA Damage Repair</a>

## Application Details

Application Notes:	<p>WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, The detection limit for TdT is approximately 0.25 ng/lane under reducing conditions.</p> <p>Notes: Tested Species: Species with positive results.</p> <p>Other applications have not been tested. Optimal dilutions should be determined by end users.</p>
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.
Restrictions:	For Research Use only

## Handling

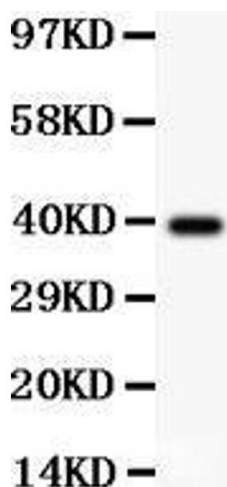
Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

## Publications

Product cited in: Xu, Tang, Li, Shi, Chen, Liang: "Positional and expressive alteration of prohibitin during the induced differentiation of human hepatocarcinoma SMMC-7721 cells." in: **World journal of gastroenterology**, Vol. 14, Issue 32, pp. 5008-14, (2008) ([PubMed](#)).

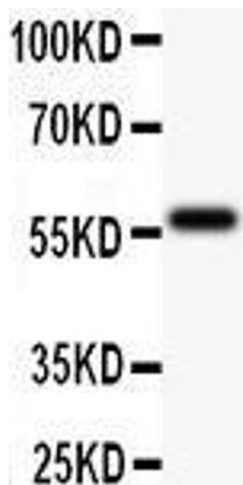
There are more publications referencing this product on: [Product page](#)

## Images



**Western Blotting**

**Image 1.** Anti-TdT Picoband antibody, All lanes: Anti TdT at 0.5ug/ml WB: Recombinant Human TdT Protein 0.5ng  
Predicted bind size: 39KD Observed bind size: 39KD



**Western Blotting**

**Image 2.** Anti-TdT Picoband antibody, All lanes: Anti TdT at 0.5ug/ml WB: JURKAT Whole Cell Lysate at 40ug Predicted bind size: 58KD Observed bind size: 58KD