BOSTER BIOLOGICAL TECHNOLOGY
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Anti-TdT/DNTT Antibody Picoband®

Catalog Number: PB9162

About DNTT

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.

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Overview

Product Name	Anti-TdT/DNTT Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-TdT/DNTT Antibody Picoband® catalog # PB9162. Tested in WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9 mg NaCl, 0.2 mg Na2HPO4, and 0.05 mg NaN3. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20˚C for one year from date of receipt. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P04053

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antibody and ELISA experts

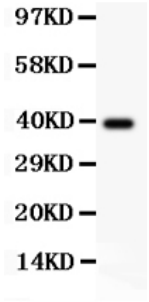
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Technical Details

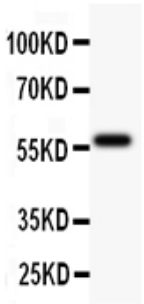
Immunogen	E.coli-derived human TdT recombinant protein (Position: K316-A509). Human TdT shares 81% amino acid (aa) sequence identity with mouse TdT.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Human

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Anti-TdT/DNTT Antibody Picoband® (PB9162) Images



Western blot analysis of TdT using anti-TdT antibody (PB9162). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. Lane 1: recombinant human TDT protein 0.5 ng. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-TdT antigen affinity purified polyclonal antibody (Catalog # PB9162) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for TdT at approximately 39 kDa. The expected band size for TdT is at 39 kDa.



Western blot analysis of TdT using anti-TdT antibody (PB9162). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human Jurkat whole cel lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-TdT antigen affinity purified polyclonal antibody (Catalog # PB9162) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for TdT at approximately 58 kDa. The expected band size for TdT is at 58 kDa.

10 Publications Citing This Product

1. PubMed ID: 23131582, Tochinai R, Ando M, Suzuki T, Suzuki K, Nagata Y, Hata C, Uchida K, Kobayashi T, Kado S, Kaneko K. Exp Toxicol Pathol. 2013 Sep;65(6):737-43. Doi: 10.1016/J.Etp.2012.09.008. Epub 2012 Nov 4. Histopathological Studies Of Microtubule Disassembling A...

2. PubMed ID: 16790636, Luo T, Xia Z. Anesth Analg. 2006 Jul;103(1):110-6, Table Of Contents. A Small Dose Of Hydrogen Peroxide Enhances Tumor Necrosis Factor-Alpha Toxicity In Inducing Human Vascular Endothelial Cell Apoptosis: Reversal With Propofol.

3. PubMed ID: 15920191, Luo T, Xia Z, Ansley Dm, Ouyang J, Granville Dj, Li Y, Xia Zy, Zhou Qs, Liu Xy. Anesth Analg. 2005 Jun;100(6):1653-9. Propofol Dose-Dependently Reduces Tumor Necrosis Factor-Alpha-Induced Human Umbilical Vein Endothelial Cell Apoptosis: Effects On...

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