

DNA nucleotidylexotransferase (TDT) antibody

□ Cat # DNTT11-A Rabbit anti-Human DNA nucleotidylexotransferase (TDT) antibody **SIZE:** 100 ug

TDT is a 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.

Source of Antigen or Antibodies

Uniprot: P04053

Host: Rabbit

Clonality: Polyclonal

Purification: Ammonium sulfate followed by peptide affinity purification

Immunogen: An 18 amino acid synthetic peptide from the N-terminal region of Human TDT.

Species Reactivity: Human

Cross reactivity: The peptide used as an immunogen exhibits 100% homology with non-human primates. 78% with Mouse and Rat. Due to the low homology, it is not recommended for samples other than Human and Monkeys.

Subcellular Location: Nucleus

Alternative names: Terminal addition enzyme. Terminal deoxynucleotidytransferase. TDT

Recommended Secondary Antibody: Goat anti-Rabbit IgG-HRP (**ADI cat#20320**)

Negative Control: Non-immune Rabbit IgG (**ADI cat# 20009-1**).

Form & Storage of Antibodies

□ **Affinity pure IgG Solution**

Concentration: 0.5 mg/ml Volume: 200 µl
Supplied in PBS pH 7.4 + 0.1% BSA
*Antibody can be made available carrier free or conjugated to HRP, Biotin, or FITC on request

□ **Lyophilized powder**

Reconstitute powder in 200 µl distilled water to 0.5 mg/ml

Storage:

Short-term: 4°C for 1 month

Long-term: at -20°C or below in suitable aliquots after reconstitution for 1 year. Do not expose to multiple freeze/thaw cycles or store working, diluted solutions.

Recommended Usage

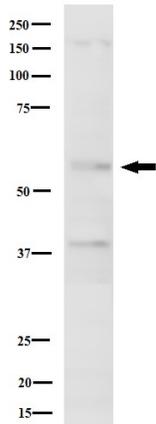
Western Blotting: 0.5-1 µg/ml
Observed Band size: ~58 kDa.

*Above concentrations are a suggestion and user's must optimize assay based on their conditions. Antibody may work in other applications such as ,IHC, ICC or IP. These methods have not been tested by ADI.

**This product is for In vitro research use only.*

DNTT11-A

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20 μ g of a whole Jurkat lysate was heated for 5 minutes at 95°C then separated on a 10% SDS-PAGE gel. The gel was run for ~1 hour and 30 minutes at 100V and transferred to a 0.2 μ m nitrocellulose membrane using the 'Mixed MW' settings on a Transblot Turbo (Biorad). The blot was blocked for 1 hour at room temperature with Fish plasma (Aquablock, EastCoastBio). **DNTT11-A** was diluted with TBST+0.1% BSA to 1 μ g/ml and incubated overnight at 4°C. Blot was washed with TBS-T 3 times for 5 minutes each. Goat anti-rabbit IgG HRP (**ADI cat#20320**) diluted 1:10,000 (50 ng/ml) in TBST+0.1% BSA and incubated for 1 hour at room temperature. The blot was washed with TBS-T 3 times for 5 minutes each. The blot was incubated with ADI Femto ECL substrate (**ADI cat#80210**) for 5 minutes then imaged on a CCD imaging system (LI-COR, C-DIGIT). Specific band is observed at ~58 kDa.