

# Anti-TdT Antibody

0807-9



<b>Product Type:</b>	Rabbit polyclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human, Mouse, Rat
<b>Applications:</b>	WB
<b>Molecular Wt:</b>	58kDa

**Description:** Terminal deoxynucleotidyltransferase (TdT) is a DNA polymerase expressed in immature lymphocytes of the thymus and bone marrow, as well as certain leukemic cells. The nuclear enzyme TdT plays a critical role in generating immune receptor diversity. During rearrangement of Ig and TCR V region genes, TdT catalyzes the addition of N nucleotides without a DNA template to V-D and D-J junctions in both Ig and TCR as well as the V-J junctions in the TCR (1-3). During the fetal and newborn period, TdT activity is absent, resulting in an N region-deficient Ag receptor repertoire significantly lacking in the diversity observed in the junctional regions of Igs and TCRs of adult animals

**Immunogen:** Synthetic peptide within Human TdT aa 25-74 / 509.

**Positive control:** Jurkat

**Subcellular location:** Cell nucleus

**Database links:** SwissProt: P04053 Human

**Recommended Dilutions:**  
**WB** 1:500-1,000

**Storage Buffer:** 1\*PBS (pH7.4), 0.2% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

**Storage Instruction:** Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

**Purity:** Immunogen affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

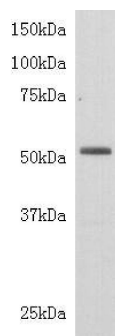
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## Images



**Fig1:** Western blot analysis on Jurkat using anti-TdT polyclonal antibody.

**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

## Background References

1. Yamashita N et al. Terminal deoxynucleotidyltransferase directly interacts with a novel nuclear protein that is homologous to p65. *Genes Cells* 6:641-652 (2001).
2. Yang B et al. Mutational analysis of residues in the nucleotide binding domain of human terminal deoxynucleotidyl transferase. *J Biol Chem* 269:11859-11868 (1994).
3. Peterson R.C et al. Molecular cloning of human terminal deoxynucleotidyltransferase. *Proc Natl Acad Sci USA* 81:4363-4367 (1984).

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