

Product datasheet for TA340045

TdT (DNTT) Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: WB

Recommended Dilution: WB

Reactivity: Human

Host: Rabbit

Isotype: IgG

Clonality: Polyclonal

Immunogen: The immunogen for anti-DNTT antibody: synthetic peptide directed towards the N terminal of

human DNTT. Synthetic peptide located within the following region: FQDLVVFILEKKMGTTRRAFLMELARRKGFRVENELSDSVTHIVAENNSG

Formulation: Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2%

sucrose.

Note that this product is shipped as lyophilized powder to China customers.

Concentration: lot specific

Purification: Affinity Purified

Conjugation: Unconjugated

Storage: Store at -20°C as received.

Stability: Stable for 12 months from date of receipt.

Predicted Protein Size: 58 kDa

Gene Name: DNA nucleotidylexotransferase

Database Link: NP 004079

Entrez Gene 1791 Human

P04053



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Background:

DNTT is a template-independent DNA polymerase that catalyzes the addition of deoxynucleotides to the 3'-hydroxyl terminus of oligonucleotide primers. In vivo, DNTT is expressed in a restricted population of normal and malignant pre-B and pre-T lymphocytes during early differentiation, where it generates antigen receptor diversity by synthesizing nongerm line elements (N-regions) at the junctions of rearranged Ig heavy chain and T cell receptor gene segments. This gene is a member of the DNA polymerase type-X family and encodes a template-independent DNA polymerase that catalyzes the addition of deoxynucleotides to the 3'-hydroxyl terminus of oligonucleotide primers. In vivo, the encoded protein is expressed in a restricted population of normal and malignant pre-B and pre-T lymphocytes during early differentiation, where it generates antigen receptor diversity by synthesizing non-germ line elements (N-regions) at the junctions of rearranged Ig heavy chain and T cell receptor gene segments. Alternatively spliced transcript variants encoding different isoforms of this gene have been described.

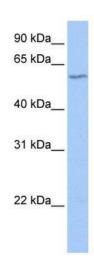
Synonyms: TDT

Note: Immunogen Sequence Homology: Pig: 100%; Rat: 100%; Horse: 100%; Human: 100%; Mouse:

100%; Bovine: 100%; Rabbit: 100%; Guinea pig: 82%; Dog: 79%

Protein Pathways: Hematopoietic cell lineage, Non-homologous end-joining

Product images:



WB Suggested Anti-DNTT Antibody Titration: 0.2-1 ug/ml; Positive Control: Jurkat cell lysate