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Product Data Sheet

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□ Cat # RP-416

Recombinant Human Terminal Deoxynucleotidyl Transferase

**Size:** □ 2 ug

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Terminal Deoxynucleotidyl Transferase (TdT). TdT is a DNA polymerase located in the cell nucleus which catalyses the polymerization of deoxynucleotides at the 3' hydroxyl ends of oligo or polydeoxynucleotide initiators and functions without a template. TdT is considered to be a highly specific marker for the diagnosis and classification of acute lymphoblastic lymphoma/leukemias. The determination of TdT expression is most valuable when it is different to differentiate histologically between lymphoblastic lymphoma and Burkitt's lymphoma.

**Source:** *Escherichia Coli*. Terminal Deoxynucleotidyl Transferase Human Recombinant encoding 1-200 amino acids expressed in E.coli. The TDT is purified by proprietary chromatographic techniques. TDT protein at 100µg/ml in 50mM Tris-Acetate, pH7.5, 1mM EDTA and 20% Glycerol. On SDS-PAGE commassie blue stained gel, the purified recombinant protein shows a band at 50 kDa

**Application And Suggested Dilutions:** • ELISA • Inhibition Assays • Western Blotting Users must optimize the appropriate concentration and conditions for each assay.

**Storage and Stability:** Store vial at -20°C to -80°C. When stored at the recommended temperature, this protein is stable for 12 months. **Please avoid freeze-thaw cycles.** If supplied in powder then reconstitute it in 100 ul water for 1 mg/ml stock and store in liquid at 4oC for ~1 week or aliquots in suitable size and store at -20oC for long term storage.

**Usage:** This item is for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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