

# Mouse Monoclonal Antibody to DNTT

Purified Mouse Monoclonal Antibody Catalog # AO2408a

#### **Product Information**

**Application** WB, E **Primary Accession** P04053 Reactivity Human Host Mouse Monoclonal Clonality **Clone Names** 4B10C3 Mouse IgG1 Isotype **Calculated MW** 58536

**Description** 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.;

**Immunogen** Purified recombinant fragment of human DNTT (AA: 52-192) expressed in E.

Coli.

**Formulation** Purified antibody in PBS with 0.05% sodium azide

**Application Note** ELISA: 1/10000; WB: 1/500 - 1/2000;

#### **Additional Information**

**Gene ID** 1791

Other Names TDT

**Dilution** WB~~1:1000 E~~N/A

**Storage** Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store

at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**Mouse Monoclonal Antibody to DNTT is for research use only and not for use

in diagnostic or therapeutic procedures.

#### **Protein Information**

Name DNTT

**Synonyms** TDT {ECO:0000303 | PubMed:11473582}

**Function** 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

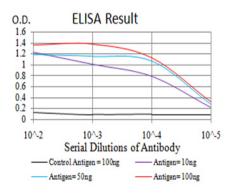
segments during the maturation of B- and T-cells.

Cellular Location Nucleus.

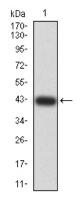
### References

1.Mod Pathol. 2013 Oct;26(10):1338-45.; 2.Haematologica. 2006 Aug;91(8):1139-40.;

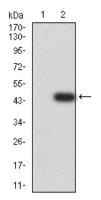
## **Images**



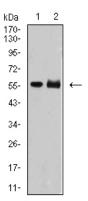
Black line: Control Antigen (100 ng); Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng)



Western blot analysis using DNTT mAb against human DNTT (AA: 52-192) recombinant protein. (Expected MW is 42 kDa)



Western blot analysis using DNTT mAb against HEK293 (1) and DNTT (AA: 52-192)-hIgGFc transfected HEK293 (2) cell lysate.



Western blot analysis using DNTT mouse mAb against MOLT4 (1) and Jurkat (2) cell lysate.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.