

**Mouse Monoclonal Antibody to DNTT**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO2409a****Specification**

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**Mouse Monoclonal Antibody to DNTT - Product Information**

Application	WB, FC, E
Primary Accession	<a href="#">P04053</a>
Reactivity	Human, Rat
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1
Calculated MW	58.5kDa KDa

**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; FCM: 1/200 - 1/400

**Mouse Monoclonal Antibody to DNTT - Additional Information**

**Gene ID** 1791

**Other Names**

TDT

**Dilution**

WB~~1:1000  
FC~~1:10~50  
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.

## Mouse Monoclonal Antibody to DNTT - 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

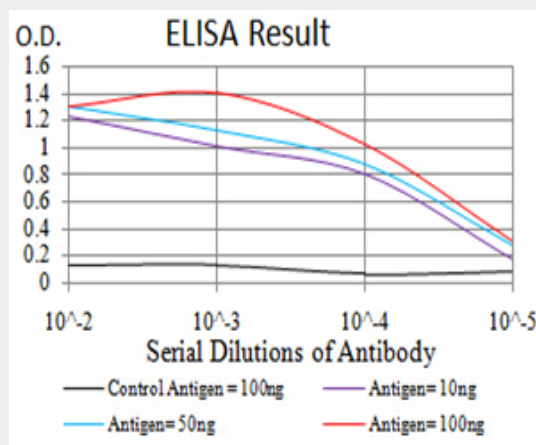
Nucleus.

## Mouse Monoclonal Antibody to DNTT - Protocols

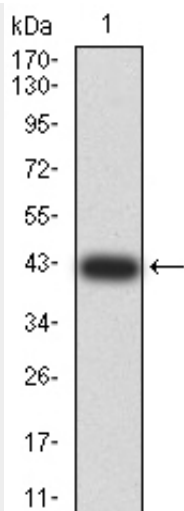
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

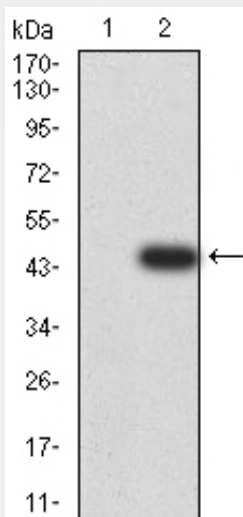
## Mouse Monoclonal Antibody to DNTT - Images



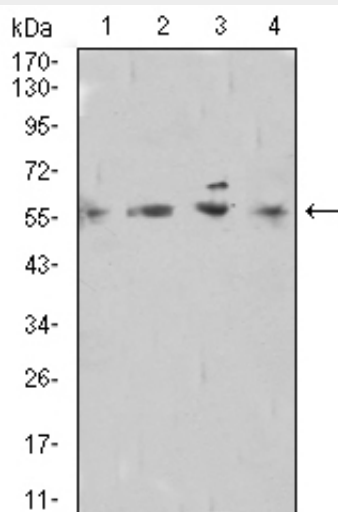
Black line: Control Antigen (100 ng); Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng)



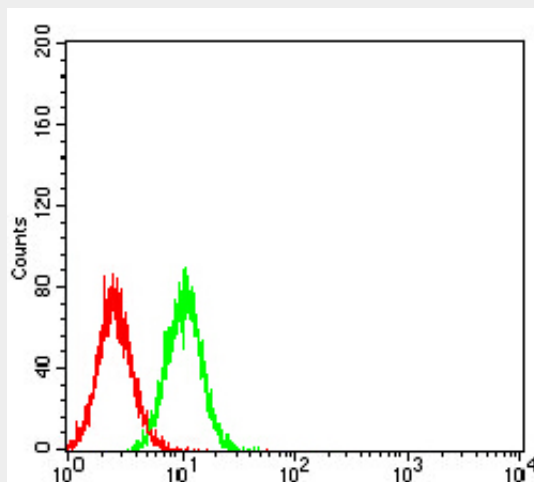
Western blot analysis using DNTT mAb against human DNTT (AA: 52-192) recombinant protein. (Expected MW is 42 kDa)



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



Western blot analysis using DNTT mouse mAb against Raji (1), A549 (2), Hela (3), and PC-12 (4) cell lysate.



Flow cytometric analysis of \*\*\* cells using Hela mouse mAb (green) and negative control (red).

#### **Mouse Monoclonal Antibody to DNTT - References**

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