

# **Mouse Monoclonal Antibody to DNTT**

Purified Mouse Monoclonal Antibody Catalog # AO2408a

## **Specification**

# Mouse Monoclonal Antibody to DNTT - Product Information

Application WB, E
Primary Accession P04053
Reactivity Human
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;

## Mouse Monoclonal Antibody to DNTT - Additional Information

**Gene ID 1791** 

**Other Names** 

**TDT** 

**Dilution** 

WB~~1:1000

 $E \sim N/A$ 

#### 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**

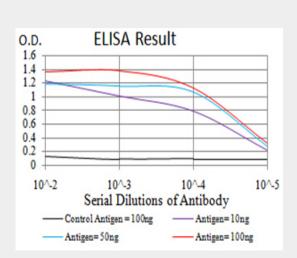
Nucleus.

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

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

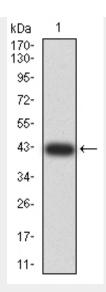
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

# Mouse Monoclonal Antibody to DNTT - Images

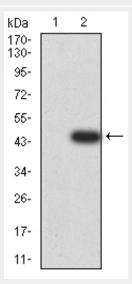


Black line: Control Antigen (100 ng); Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng)

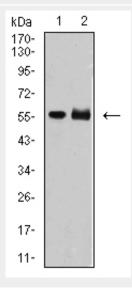




Western blot analysis using DNTT mAb against human DNTT (AA: 52-192) recombinant protein. (Expected MW is 42 kDa)



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 MOLT4 (1) and Jurkat (2) cell lysate. Mouse Monoclonal Antibody to DNTT - References

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