10320 Camino Santa Fe, Suite G
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Mouse Monoclonal Antibody to DNTT
Purified Mouse Monoclonal Antibody
Catalog # AO2408a

Specification

Mouse Monoclonal Antibody to DNTT - Product Information

Application	**E, WB**
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

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

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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.

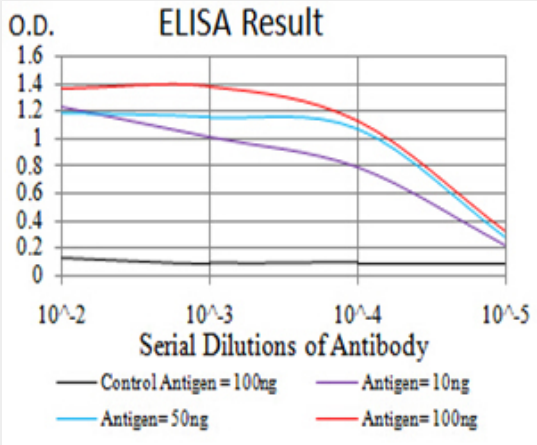
Cellular Location
Nucleus.

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)

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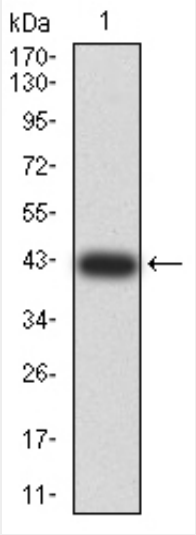
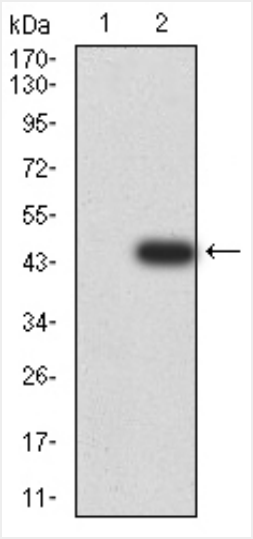
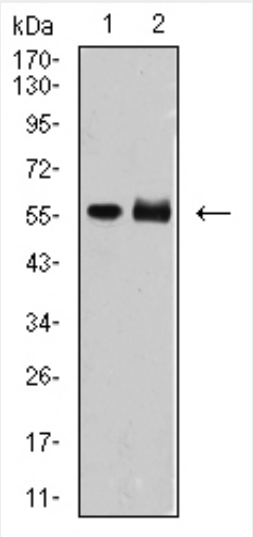


Western blot analysis using DNTT mAb against human DNTT (AA: 52-192) recombinant protein. (Expected MW is 42 kDa)



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



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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.;