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Mouse Monoclonal Antibody to DNTT

Purified Mouse Monoclonal Antibody
Catalog # AO2408a

Product Information

Application	WB, E
Primary Accession	P04053
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	4B10C3
Isotype	Mouse IgG1
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.

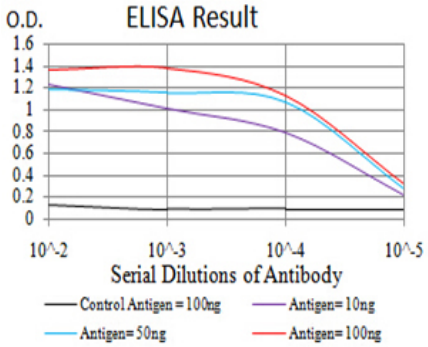
Protein Information

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.

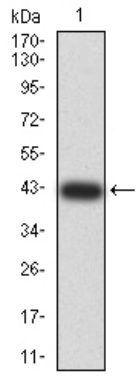
References

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

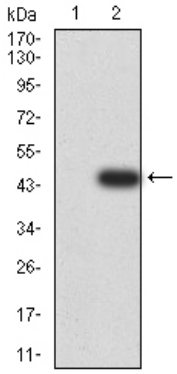
Images



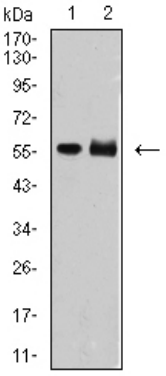
Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)



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.