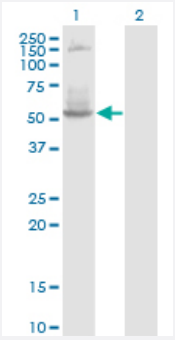
DNTT monoclonal antibody (M01), clone 4H5

Catalog # H00001791-M01 Size 100 ug

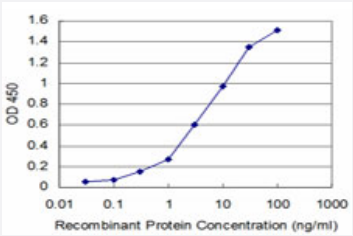
Applications



Western Blot (Transfected lysate)

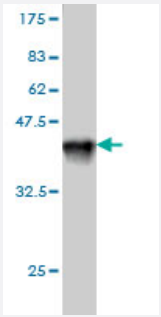
Western Blot analysis of DNTT expression in transfected 293T cell line by DNTT monoclonal antibody (M01), clone 4H5.

Lane 1: DNTT transfected lysate (Predicted MW: 58.4 KDa).
Lane 2: Non-transfected lysate.



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged DNTT is approximately 0.1ng/ml as a capture antibody.



Western Blot detection against Immunogen (37.51 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant DNTT.

Immunogen	DNTT (AAH12920, 1 a.a. ~ 110 a.a) partial recombinant protein with GST tag. MW of the GST tag al one is 26 KDa.
Sequence	MDPPRASHLSPRKKRPRQTGALMASSPQDIKFQDLVVFILEKKMGTTRRAFLMELARRKGFRVE NELSDSVTHIVAENNSGSDVLEWLQAQKVQVSSQPELLDVSWLIEC
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (81); Rat (83)
Isotype	IgG1 Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.51 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

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- Western Blot (Transfected lysate)

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  Protocol Download

- Western Blot (Recombinant protein)

  Protocol Download

- Sandwich ELISA (Recombinant protein)

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  Protocol Download

- ELISA

Gene Info — DNTT

Entrez GeneID	1791
GeneBank Accession#	BC012920
Protein Accession#	AAH12920
Gene Name	DNTT
Gene Alias	TDT
Gene Description	deoxynucleotidyltransferase, terminal
Omim ID	187410
Gene Ontology	Hyperlink
Gene Summary	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. [provided by RefSeq
Other Designations	DNA nucleotidylexotransferase|OTTHUMP00000020171|nucleosidetriphosphate:DNA deoxynucleotidylexotransferase|terminal addition enzyme|terminal deoxynucleotidyltransferase|terminal deoxyribonucleotidyltransferase|terminal transferase

Pathway

- Hematopoietic cell lineage
- Non-homologous end-joining

Disease

- Alzheimer Disease
- Genetic Predisposition to Disease