

## **DNTT Antibody (monoclonal) (M01)**

Mouse monoclonal antibody raised against a partial recombinant DNTT.

Catalog # AT1808a

### **Specification**

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#### **DNTT Antibody (monoclonal) (M01) - Product Information**

Application	WB, E
Primary Accession	<a href="#">P04053</a>
Other Accession	<a href="#">BC012920</a>
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG1 Kappa
Calculated MW	58536

#### **DNTT Antibody (monoclonal) (M01) - Additional Information**

**Gene ID** 1791

#### **Other Names**

DNA nucleotidylexotransferase, Terminal addition enzyme, Terminal deoxynucleotidyltransferase, Terminal transferase, DNTT, TDT

#### **Target/Specificity**

DNTT (AAH12920, 1 a.a. ~ 110 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

#### **Dilution**

WB~~1:500~1000

#### **Format**

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

#### **Storage**

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

#### **Precautions**

DNTT Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

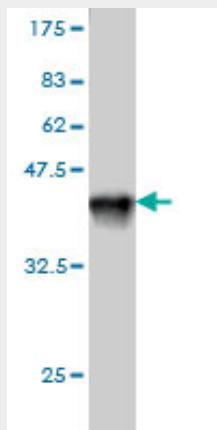
#### **DNTT Antibody (monoclonal) (M01) - Protocols**

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

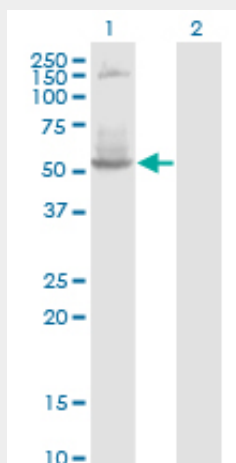
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### DNTT Antibody (monoclonal) (M01) - Images



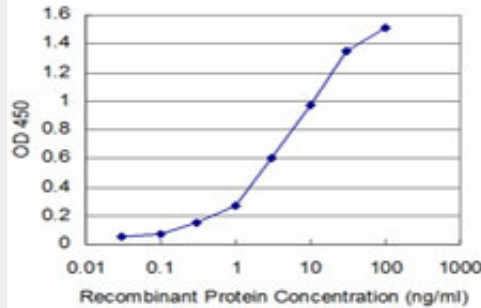
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.51 KDa) .



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.



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

### **DNTT Antibody (monoclonal) (M01) - Background**

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.

### **DNTT Antibody (monoclonal) (M01) - References**

Bood POZ containing gene type 2 is a human counterpart of yeast Btb3p and promotes the degradation of terminal deoxynucleotidyltransferase. Maezawa S, et al. *Genes Cells*, 2008 May. PMID 18429817. Identification of functional domains in TdIF1 and its inhibitory mechanism for TdT activity. Kubota T, et al. *Genes Cells*, 2007 Aug. PMID 17663723. Terminal deoxynucleotidyl transferase-positive cells in spleen, appendix and branchial cleft cysts in pediatric patients. O'Malley DP, et al. *Haematologica*, 2006 Aug. PMID 16885057. A scan of chromosome 10 identifies a novel locus showing strong association with late-onset Alzheimer disease. Grupe A, et al. *Am J Hum Genet*, 2006 Jan. PMID 16385451. The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. *Genome Res*, 2004 Oct. PMID 15489334.