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# DNTT Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant DNTT.
Catalog # AT1808a

## Product Information

| | |
|---|---|
| **Application** | WB, E |
| **Primary Accession** | P04053 |
| **Other Accession** | BC012920 |
| **Reactivity** | Human |
| **Host** | mouse |
| **Clonality** | monoclonal |
| **Isotype** | IgG1 Kappa |
| **Clone Names** | 4H5 |
| **Calculated MW** | 58536 |

## Additional Information

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|---|---|
| **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 E~~N/A |
| **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. |

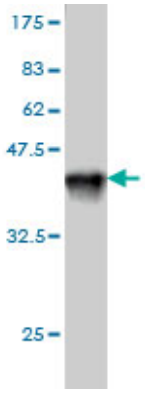
## Background

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.

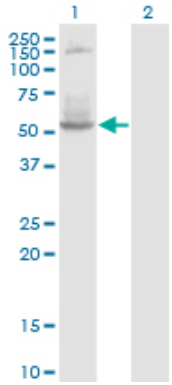
## References

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.

## Images

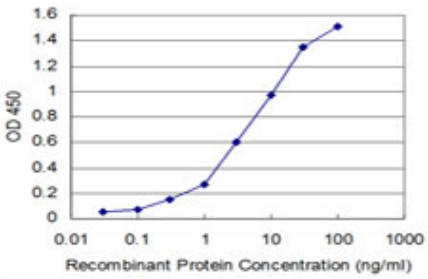



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.51 KDa) .




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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.