

## TPMT Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a full length recombinant TPMT.  
Catalog # AT4321a

### Product Information

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<b>Application</b>	WB, IF, E
<b>Primary Accession</b>	<a href="#">P51580</a>
<b>Other Accession</b>	<a href="#">BC005339</a>
<b>Reactivity</b>	Human
<b>Host</b>	mouse
<b>Clonality</b>	monoclonal
<b>Isotype</b>	IgG1 Kappa
<b>Clone Names</b>	1D4
<b>Calculated MW</b>	28180

### Additional Information

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<b>Gene ID</b>	7172
<b>Other Names</b>	Thiopurine S-methyltransferase, Thiopurine methyltransferase, TPMT
<b>Target/Specificity</b>	TPMT (AAH05339, 1 a.a. ~ 245 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
<b>Dilution</b>	WB~~1:500~1000 IF~~1:50~200 E~~N/A
<b>Format</b>	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
<b>Storage</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
<b>Precautions</b>	TPMT Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

### Background

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This gene encodes the enzyme that metabolizes thiopurine drugs via S-adenosyl-L-methionine as the S-methyl donor and S-adenosyl-L-homocysteine as a byproduct. Thiopurine drugs such as 6-mercaptopurine are used as chemotherapeutic agents. Genetic polymorphisms that affect this enzymatic activity are correlated with variations in sensitivity and toxicity to such drugs within individuals. A pseudogene for this locus is located on chromosome 18q.

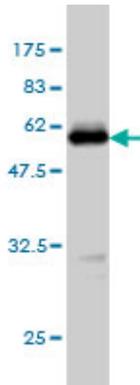
### References

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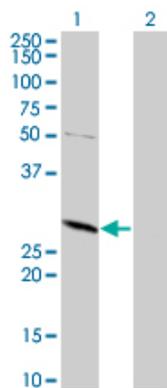
Variation at the NFATC2 Locus Increases the Risk of Thiazolinedione-Induced Edema in the Diabetes Reduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes

Care, 2010 Jul 13. PMID 20628086. Thiopurine S-methyltransferase polymorphisms and thiopurine toxicity in treatment of inflammatory bowel disease. Dong XW, et al. World J Gastroenterol, 2010 Jul 7. PMID 20593505. Genetic analysis of thiopurine methyltransferase polymorphism in the Jordanian population. Hakooz N, et al. Eur J Clin Pharmacol, 2010 Oct. PMID 20521035. Frequency of thiopurine S-methyltransferase (TPMT) alleles in southeast Iranian population. Bahari A, et al. Nucleosides Nucleotides Nucleic Acids, 2010 Mar. PMID 20408054. Genetic variation in 3-hydroxy-3-methylglutaryl CoA reductase modifies the chemopreventive activity of statins for colorectal cancer. Lipkin SM, et al. Cancer Prev Res (Phila), 2010 May. PMID 20403997.

## Images

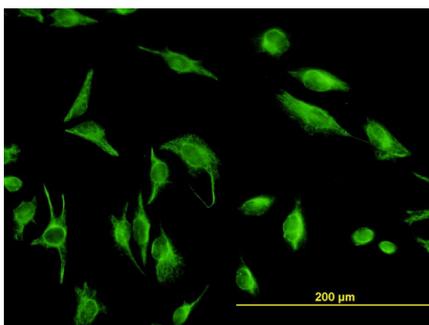


Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (52.69 KDa) .

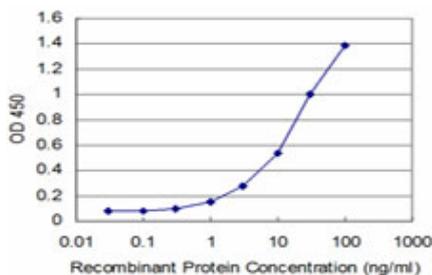


Western Blot analysis of TPMT expression in transfected 293T cell line by TPMT monoclonal antibody (M02), clone 1D4.

Lane 1: TPMT transfected lysate (28.2 KDa).  
Lane 2: Non-transfected lysate.



Immunofluorescence of monoclonal antibody to TPMT on HeLa cell. [antibody concentration 10 μg/ml]



Detection limit for recombinant GST tagged TPMT is approximately 1 ng/ml as a capture antibody.

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