

**TPMT Antibody (monoclonal) (M01)****Mouse monoclonal antibody raised against a full length recombinant TPMT.****Catalog # AT4320a****Specification**

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**TPMT Antibody (monoclonal) (M01) - Product Information**

Application	WB, IHC, IF
Primary Accession	<a href="#">P51580</a>
Other Accession	<a href="#">BC005339</a>
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG1 kappa
Calculated MW	28180

**TPMT Antibody (monoclonal) (M01) - Additional Information****Gene ID** 7172**Other Names**

Thiopurine S-methyltransferase, Thiopurine methyltransferase, TPMT

**Target/Specificity**

TPMT (AAH05339, 1 a.a. ~ 245 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

**Dilution**

WB~~1:500~1000

IHC~~1:100~500

IF~~1:50~200

**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**

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

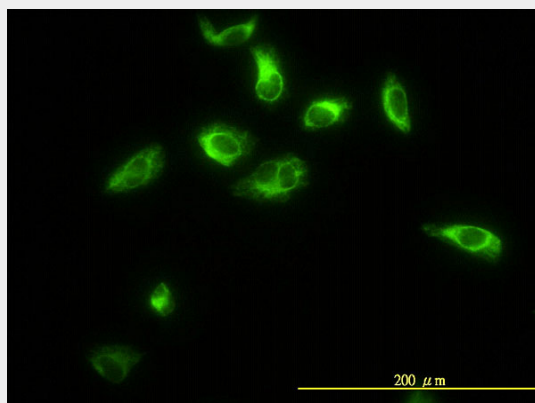
**TPMT Antibody (monoclonal) (M01) - Protocols**

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

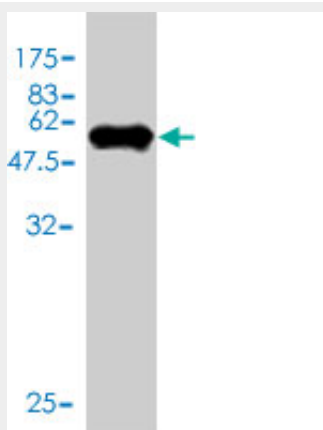
- [Western Blot](#)
- [Blocking Peptides](#)

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

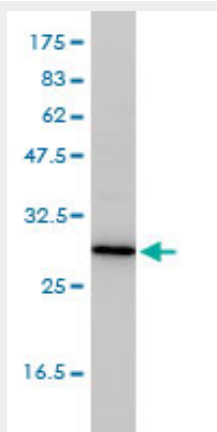
## TPMT Antibody (monoclonal) (M01) - Images



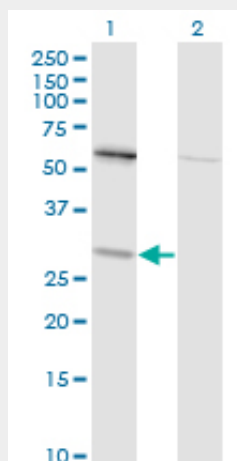
Immunofluorescence of monoclonal antibody to TPMT on HeLa cell. [antibody concentration 10 ug/ml]



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



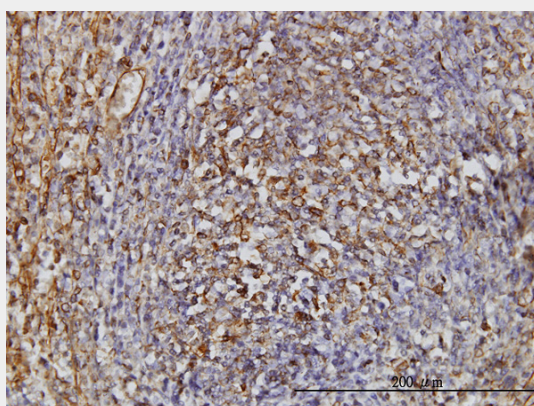
TPMT monoclonal antibody (M01), clone 1B5 Western Blot analysis of TPMT expression in Jurkat (Cat # AT4320a )



Western Blot analysis of TPMT expression in transfected 293T cell line by TPMT monoclonal antibody (M01), clone 1B5.

Lane 1: TPMT transfected lysate(28.2 KDa).

Lane 2: Non-transfected lysate.



Immunoperoxidase of monoclonal antibody to TPMT on formalin-fixed paraffin-embedded human spleen. [antibody concentration 1 ug/ml]

### TPMT Antibody (monoclonal) (M01) - Background

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.

### TPMT Antibody (monoclonal) (M01) - References

1.S-adenosylmethionine regulates thiopurine methyltransferase activity and decreases 6-mercaptopurine cytotoxicity in MOLT lymphoblasts.Milek M, Karas Kuzelicki N, Smid A, Mlinaric-Rascan I.Biochem Pharmacol. 2009 Jun 15;77(12):1845-53. Epub 2009 Mar 19.2.A novel gene delivery system for stable transfection of thiopurine-S-methyltransferase gene in versatile cell types.Egle R, Milek M, Mlinaric-Rascan I, Fahr A, Kristl J.Eur J Pharm Biopharm. 2008 May;69(1):23-30. Epub 2007 Oct 11.