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TPMT Antibody (monoclonal) (M02)

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

Specification

TPMT Antibody (monoclonal) (M02) - Product Information

Application	**IF, WB, E**
Primary Accession	P51580
Other Accession	BC005339
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG1 Kappa**
Calculated MW	**28180**

TPMT Antibody (monoclonal) (M02) - 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

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) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

TPMT Antibody (monoclonal) (M02) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry

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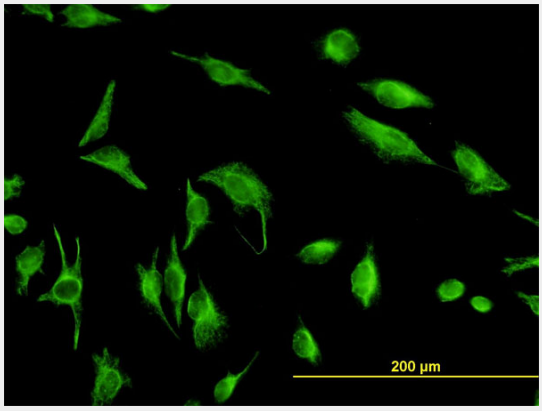
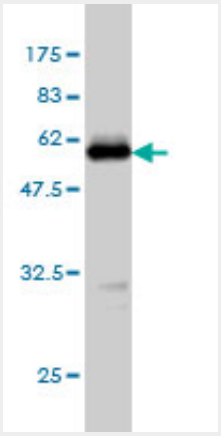
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

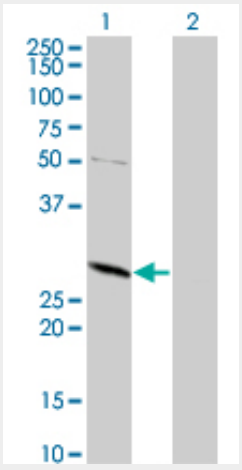
TPMT Antibody (monoclonal) (M02) - Images



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) .



Western Blot analysis of TPMT expression in transfected 293T cell line by TPMT monoclonal

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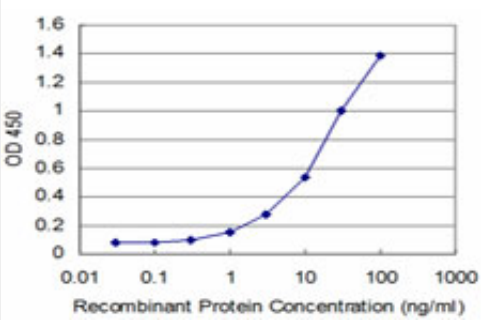
antibody (M02), clone 1D4.

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



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

TPMT Antibody (monoclonal) (M02) - 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) (M02) - References

Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-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.