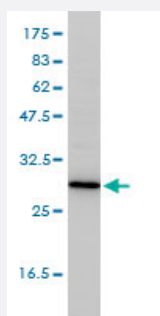


TPMT monoclonal antibody (M01), clone 1B5

Catalog # H00007172-M01

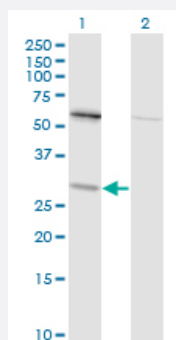
Size 100 ug

Applications



Western Blot (Cell lysate)

TPMT monoclonal antibody (M01), clone 1B5 Western Blot analysis of TPMT expression in Jurkat (Cat # L017V1).

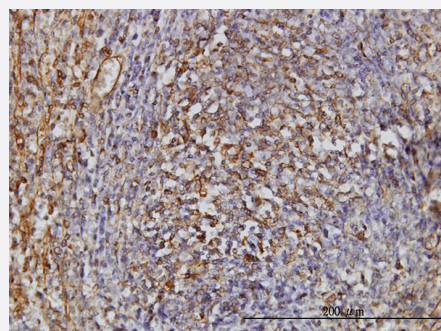


Western Blot (Transfected lysate)

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

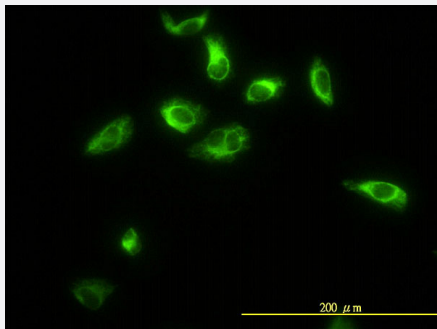
Lane 1: TPMT transfected lysate(28.2 KDa).

Lane 2: Non-transfected lysate.



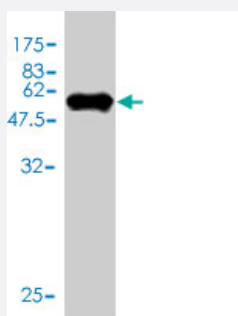
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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



Immunofluorescence

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



Western Blot detection against Immunogen (52.69 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a full length recombinant TPMT.
Immunogen	TPMT (AAH05339, 1 a.a. ~ 245 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MDGTRTSLDIEEYSDTEVQKNQVLTLEEWQDKWVNGKTAHFHQEQGHQLLKKHLDFTLKGKSGLR VFFPLCGKAVEMKWFADRGHSVVGVEISELGIQEFFTEQNLSYSEEPITEIPGTVFKSSSGNISLY CCSIFDLPRTNIGKFDMMWDGALVAINPGDRKCYADTMFSLGKKFQYLLCVLSYDPTKHPGPPF YVPHAEIERLFGKICNIRLEKVDAFEERHKSWGIDCLFEKLYLLTEK
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (79); Rat (67)
Isotype	IgG1 kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (52.69 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

TPMT monoclonal antibody (M01), clone 1B5 Western Blot analysis of TPMT expression in Jurkat (Cat # L017V1).

[Protocol Download](#)

- Western Blot (Transfected lysate)

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.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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

[Protocol Download](#)

- ELISA

- Immunofluorescence

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

Gene Info — TPMT

Entrez GeneID	7172
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GeneBank Accession#	BC005339
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Protein Accession#	AAH05339
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Gene Name	TPMT
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Gene Alias	-
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Gene Description	thiopurine S-methyltransferase
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Omim ID	187680 610460
Gene Ontology	Hyperlink
Gene Summary	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. [provided by RefSeq]
Other Designations	OTTHUMP00000016076[S-adenosyl-L-methionine:thiopurine S-methyltransferase]thiopurine methyltransferase

Publication Reference

- [S-adenosylmethionine regulates thiopurine methyltransferase activity and decreases 6-mercaptopurine cytotoxicity in MOLT lymphoblasts.](#)

Milek M, Karas Kuzelicki N, Smid A, Mlinaric-Rascan I.

Biochemical Pharmacology 2009 Jun; 77(12):1845.

Application: Flow Cyt, Human, MOLT cells

- [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.

European Journal of Pharmaceutics and Biopharmaceutics 2007 Oct; 69(1):23.

Application: WB, Human, HepG2, HEK 293, Jurkat cells

Pathway

- [Drug metabolism - other enzymes](#)

Disease

- [Acute Disease](#)
- [Agranulocytosis](#)
- [Alopecia](#)
- [Arthritis](#)

- [Autoimmune Diseases](#)
- [Bone Marrow Diseases](#)
- [Brain Neoplasms](#)
- [Cardiovascular Diseases](#)
- [Colitis](#)
- [Colorectal Neoplasms](#)
- [Communicable Diseases](#)
- [Crohn Disease](#)
- [Diabetes Mellitus](#)
- [DNA Damage](#)
- [Drug Toxicity](#)
- [Edema](#)
- [Gastrointestinal Diseases](#)
- [Genetic Predisposition to Disease](#)
- [Hematologic Diseases](#)
- [Hematologic Neoplasms](#)
- [Hepatitis](#)
- [Inflammatory Bowel Diseases](#)
- [Kidney Failure](#)
- [Leukemia](#)
- [Leukopenia](#)
- [Liver Cirrhosis](#)
- [Liver Diseases](#)
- [Lupus Erythematosus](#)
- [Lymphoproliferative Disorders](#)
- [Metabolism](#)

- [Nausea](#)
- [Neoplasm](#)
- [Neoplasms](#)
- [Nervous System Diseases](#)
- [Neutropenia](#)
- [Pancreatitis](#)
- [Precursor B-Cell Lymphoblastic Leukemia-Lymphoma](#)
- [Precursor T-Cell Lymphoblastic Leukemia-Lymphoma](#)
- [Reaction Time](#)
- [Recurrence](#)
- [Rheumatic Diseases](#)
- [Skin Diseases](#)
- [Thrombocytopenia](#)
- [Uremia](#)
- [Vomiting](#)