Mouse Anti-Human TPMT Monoclonal Antibody

Cat. No. CAB-11471MH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Anti-human TPMT mAb,is derived from hybridization of mouse F0 myeloma cells with spleen cellsfrom BALB/c mice immunized with a recombinant human TPMT protein.
Species	Human
Source	Mouse
Antigen Description	TPMT (ThiopurineS-methyltransferase) is a very important enzyme for the metaboliz m ofthiopurine compounds. TPMT pharmacogenetics has been studied extensivelybe cause of its clinical significance. Many patients got benefited from theknowledge of T PMT genotype-phenotype correlation. Also, TPMT activityexhibits autosomal codomin ant genetic polymorphism, and patients inheritingTPMT-deficiency are at high risk of potentially fatal hematopoietic toxicity.
Immunogen	Recombinant humanTPMT (1-245aa) purified from E. coli.
Isotype	Mouse IgG1heavy chain and κ light chain.
Application	ELISA; WB
Clone	BU3F8
Description	TPMT isan enzyme that methylates thiopurine compounds. The methyl donor isS-adenosyl-L-methionine, which is converted to S-adenosyl-L-homocysteine.

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Concentration	1 mg/ml
Form	Liquid.In Phosphate-Buffered Saline (pH 7.4) with 0.1% Sodium Azide.
Usage	Theantibody has been tested by ELISA, Western blot analysis to assurespecificity and reactivity. Since application varies, however, eachinvestigation should be titrated by the reagent to obtain optimal results.Recommended dilution range for Western blot analysis is 1:1000.
Storage	Can bestored at +4°C. For long term storage, aliquot and store at -20°C or -70°C.Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	TPMT thiopurineS-methyltransferase [Homo sapiens]
Official Symbol	TPMT
Synonyms	TPMT; thiopurine S-methyltransferase; S-adenosyl-L-methionine:thiopurineS-methyltransferase; EC 2.1.1.67; Thiopurine methyltransferase;OTTHUMP00000016076
Gene ID	7172
mRNA Refseq	NM_000367
Protein Refseq	NP_000358
MIM	187680
UniProt ID	P51580

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Chromosome Location	6p22.3
Pathway	Biological oxidations; Drugmetabolism - other enzymes; Metabolism; Phase II conjug
Function	methyltransferase activity;thiopurine S-methyltransferase activity; transferase activity

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