

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 cells from BALB/c mice immunized with a recombinant human TPMT protein.
Species	Human
Source	Mouse
Antigen Description	TPMT (Thiopurine S-methyltransferase) is a very important enzyme for the metabolism of thiopurine compounds. TPMT pharmacogenetics has been studied extensively because of its clinical significance. Many patients have benefited from the knowledge of TPMT genotype-phenotype correlation. Also, TPMT activity exhibits autosomal codominant genetic polymorphism, and patients inheriting TPMT-deficiency are at high risk of potentially fatal hematopoietic toxicity.
Immunogen	Recombinant human TPMT (1-245aa) purified from E. coli.
Isotype	Mouse IgG1 heavy chain and κ light chain.
Application	ELISA; WB
Clone	BU3F8
Description	TPMT is an enzyme that methylates thiopurine compounds. The methyl donor is S-adenosyl-L-methionine, which is converted to S-adenosyl-L-homocysteine.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Concentration	1 mg/ml
Form	Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.1% Sodium Azide.
Usage	The antibody has been tested by ELISA, Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results. Recommended dilution range for Western blot analysis is 1:1000.
Storage	Can be stored 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 thiopurine S-methyltransferase [Homo sapiens]
Official Symbol	TPMT
Synonyms	TPMT; thiopurine S-methyltransferase; S-adenosyl-L-methionine:thiopurine S-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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