

Mouse anti-Human TPMT Monoclonal Antibody | anti-TPMT antibody

TPMT antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA48100	Mouse	Human	Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot, ELISA

PRODUCT SYNONYMS

TPMT; Monoclonal Antibody; TPMT antibody; Thiopurine S-methyltransferase; Thiopurine S-methyltransferase HGNC:12014; S adenosyl L methionine thiopurine S methyltransferase; Thiopurine methyltransferase; Thiopurine S methyltransferase.; anti-TPMT antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1, k
Clone Number	AT2E7
Purity/Purification	By protein-G affinity chromatography
Form/Format	Liquid. In phosphate-buffered saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	245
Applicable Applications for anti-TPMT antibody	FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot), ELISA
Antigen Species	Human
Immunogen	Recombinant human TPMT (1-245aa) purified from E. coli
Clone Note	Anti-human TPMT mAb, clone AT2E7, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human TPMT protein.
Preparation and Storage	Can be stored at 4 degree C. For long term storage, aliquot and store at -20 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



IF (Immunofluorescence)

ICC/IF analysis of TPMT in U87MG cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human TPMT antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



WB (Western Blot)

The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human TPMT antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. The Recombinant Protein (50ng) and Cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human TPMT antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1. : Recombinant Protein Lane 2. : HepG2 cell lysate

ADDITIONAL INFORMATION

Related Product Information for anti-TPMT antibody	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 got 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.
Product Categories/Family for anti-TPMT antibody	Proteases & Inhibitors
References	Milstein O., et al. (2008) J Biol Chem. 283 (49):34414-22.; Aldape MJ., et al. (2007) J Infect Dis. 195 (12):1838-45.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4507653
NCBI GeneID	7172
NCBI Accession #	NP_000358
NCBI GenBank Nucleotide #	NM_000367.4
UniProt Accession #	P51580 ; O14806 ; O15423 ; O15424 ; O15425 ; O15426 ; O15515 ; O15548 ; O43213 ; Q5VUK6 ; Q9UBE6 ; Q9UBT8
Molecular Weight	28,180 Da
NCBI Official Full Name	thiopurine S-methyltransferase isoform 1
NCBI Official Synonym Full Names	thiopurine S-methyltransferase
NCBI Official Symbol	TPMT
NCBI Official Synonym Symbols	TPMTD
NCBI Protein Information	thiopurine S-methyltransferase
UniProt Protein Name	Thiopurine S-methyltransferase
UniProt Gene Name	TPMT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.