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# **Human TPMT antibody**

Catalog Number: ATGA0211

# **PRODUCT INFORMATION**

## Catalog number

ATGA0211

#### Clone No.

AT2E7

## **Product type**

Monoclonal Antibody

#### UnitProt No.

P51580

#### **NCBI Accession No.**

NP 000358

#### **Alternative Names**

Thiopurine S-methyltransferase, Thiopurine S-methyltransferase, TPMT, Thiopurine S-methyltransferase HGNC:12014, S adenosyl L methionine thiopurine S methyltransferase, Thiopurine methyltransferase, Thiopurine S methyltransferase.

# **PRODUCT SPECIFICATION**

#### **Antibody Host**

Mouse

## **Reacts With**

Human

#### Concentration

1mg/ml (determined by BCA assay)

#### **Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

#### Immunogen

Recombinant human TPMT (1-245aa) purified from E. coli

### Isotype

IgG1 kappa

#### **Purification Note**

By protein-G affinity chromatography

#### **Application**

ELISA, WB, ICC/IF

## **Usage**

The antibody has been tested by ELISA, Western blot and ICC/IF analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.



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#### **Storage**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

# **BACKGROUND**

#### **Description**

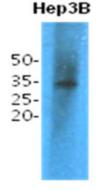
TPMT (Thiopurine S-methyltransferase) is a very important enzyme for the metabolizm of thiopurine compounds. TPMT pharmacogenetics has been studied extensively because of its clinical significance. Many patients got benefited from the knowledge of TPMT genotype-phenotype correlation. Also, TPMT activity exhibits autosomal codominant genetic polymorphism, and patients inheriting TPMT-deficiency are at high risk of potentially fatal hematopoietic toxicity.

## **General References**

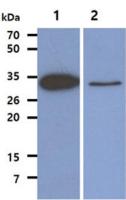
Milstein O., et al. (2008) J Biol Chem. 283(49):34414-22. Aldape MJ., et al. (2007) J Infect Dis. 195(12):1838-45.

# **DATA**

# Western blot analysis (WB)



The cell lysate (40ug) was 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 lysate (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with antihuman 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

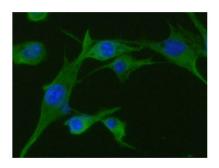
Immunocytochemistry/Immunofluorescence (ICC/IF)



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ICC/IF analysis of TPMT in U87MG cells. The cell was stained with ATGA0211 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

