

For Research Use Only

# TPMT Polyclonal antibody

Catalog Number: 10682-1-AP **1 Publications**



## Basic Information

<b>Catalog Number:</b> 10682-1-AP	<b>GenBank Accession Number:</b> BC005339	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 550 µg/ml by Nanodrop and 333 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 7172	<b>Recommended Dilutions:</b> WB 1:1000-1:5000 IF 1:20-1:200
<b>Source:</b> Rabbit	<b>Full Name:</b> thiopurine S-methyltransferase	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 28 kDa	
<b>Immunogen Catalog Number:</b> AG1074	<b>Observed MW:</b> 28-32 kDa	

## Applications

<b>Tested Applications:</b> IF, WB, ELISA	<b>Positive Controls:</b> WB : HeLa cells, mouse kidney tissue
<b>Cited Applications:</b> IHC	<b>IF :</b> HEK-293 cells,
<b>Species Specificity:</b> human, mouse, rat	
<b>Cited Species:</b> human	

## Background Information

The TPMT gene is localized to chromosome 6p22.3 and is approximately 34 kDa in length. It has an open reading frame (ORF) of 735 bp that encodes for a 245-amino acid peptide. The wild type TPMT allele, expressing the enzyme with normal activity. To date, there have been 30 variant TPMT alleles described (PMID: 22493988). Thiopurine compounds are commonly used in the treatment of childhood acute lymphoblastic leukemia, and as immunosuppressants following organ transplantation or for treatment of various autoimmune disorders. Thiopurine S-methyltransferase (TPMT) is required for detoxification, through S-methylation, of 6-thioguanine nucleotides (TGNs), a byproduct of thiopurine metabolism. Catalog# 10682-1-AP is a rabbit polyclonal antibody raised against the full-length of human TPMT. TPMT has a predicted molecular weight of 28 kDa, however, as a result of its phosphorylation it separates on a SDS gel as a band of approximately 28-32 kDa.

## Notable Publications

Author	Pubmed ID	Journal	Application
Lingyun Zhang	34322485	Front Cell Dev Biol	IHC

## Storage

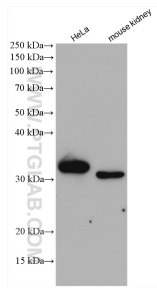
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

**\*\*\* 20ul sizes contain 0.1% BSA**

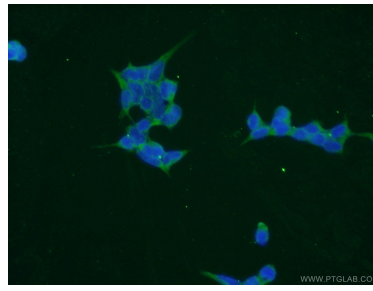
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 10682-1-AP (TPMT antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of HEK-293 cells using 10682-1-AP (TPMT antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).