

## TPMT Monoclonal antibody, PBS Only

Catalog Number: 68251-1-PBS

## Basic Information

Catalog Number:	GenBank Accession Number:	Purification Method:
68251-1-PBS	BC005339	Protein A purification
Size:	GeneID (NCBI):	CloneNo.:
1mg/ml	7172	1D4B3
Source:	UNIPROT ID:	
Mouse	P51580	
Isotype:	Full Name:	
IgG2a	thiopurine S-methyltransferase	
Immunogen Catalog Number:	Calculated MW:	
AG28693	28 kDa	
	Observed MW:	
	32 kDa	

## Applications

Tested Applications:  
WB, IF, Indirect ELISA

Species Specificity:  
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.

## Storage

Storage:  
Store at -80°C.  
**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**  
Storage Buffer:  
PBS Only

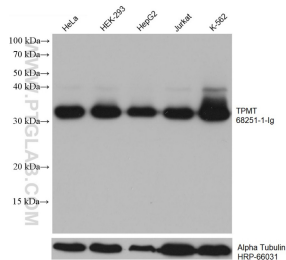
For technical support and original validation data for this product please contact:

T: 4006900926

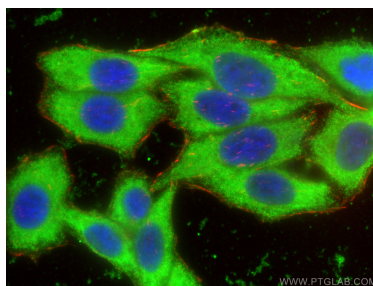
E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)W: [ptgcn.com](http://ptgcn.com)

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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68251-1-Ig (TPMT antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Alpha Tubulin Monoclonal antibody (HRP-66031) as loading control. This data was developed using the same antibody clone with 68251-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using TPMT antibody (68251-1-Ig, Clone: 1D4B3) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-phalloidin (red). This data was developed using the same antibody clone with 68251-1-PBS in a different storage buffer formulation.