

For Research Use Only

TPMT Monoclonal antibody

Catalog Number: 68251-1-Ig



Basic Information

Catalog Number: 68251-1-Ig	GenBank Accession Number: BC005339	Purification Method: Protein A purification
Size: 500 µg/ml	GeneID (NCBI): 7172	CloneNo.: 1D4B3
Source: Mouse	UNIPROT ID: P51580	Recommended Dilutions: WB 1:5000-1:50000 IF/ICC 1:400-1:1600
Isotype: IgG2a	Full Name: thiopurine S-methyltransferase	
Immunogen Catalog Number: AG28693	Calculated MW: 28 kDa	
	Observed MW: 32 kDa	

Applications

Tested Applications: WB, IF/ICC, ELISA	Positive Controls:
Species Specificity: Human	WB : HeLa cells, HEK-293 cells, HepG2 cells, Jurkat cells, k-562 cells IF/ICC : HepG2 cells,

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 -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

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

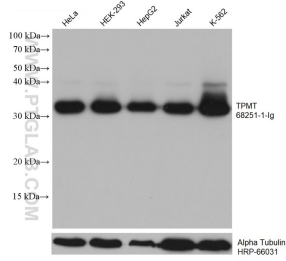
T: 4006900926

E: Proteintech-CN@ptglab.com

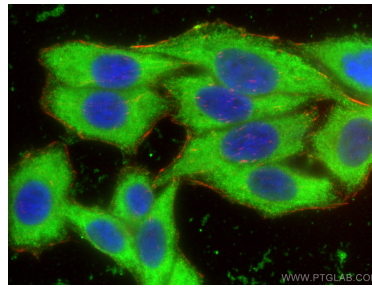
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Selected Validation Data



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.



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).