

For Research Use Only

TPMT Polyclonal antibody

Catalog Number: 10682-1-AP **3 Publications**



Basic Information

Catalog Number: 10682-1-AP	GenBank Accession Number: BC005339	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 550 ug/ml by Nanodrop and 333 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 7172	Recommended Dilutions: WB 1:1000-1:5000 IF/ICC 1:20-1:200
Source: Rabbit	UNIPROT ID: P51580	
Isotype: IgG	Full Name: thiopurine S-methyltransferase	
Immunogen Catalog Number: AG1074	Calculated MW: 28 kDa	
	Observed MW: 28-32 kDa	

Applications

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

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
Li-Xia Qiu	39913466	PLoS One	WB
Drake A Russell	39728496	Metabolites	WB

Storage

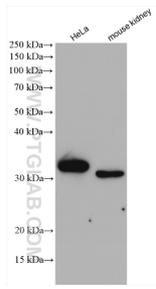
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

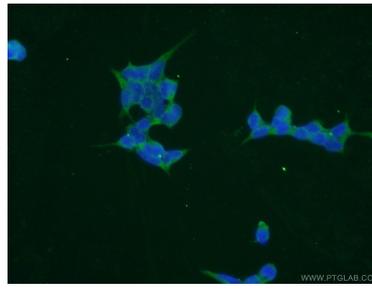
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

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 Goat Anti-Rabbit IgG(H+L).