

TPMT Polyclonal Antibody

Catalog number: 10682-1-AP

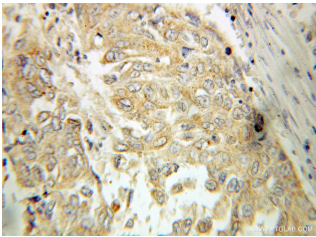
Size: 22 µg/150 µl

Source: Rabbit

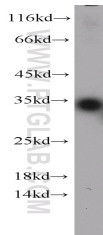
Isotype: IgG

Synonyms:

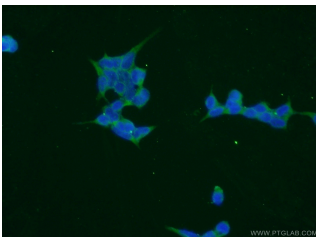
TPMT; Thiopurine methyltransferase, thiopurine S methyltransferase, TPMT



Immunohistochemical of paraffin-embedded human lung cancer using 10682-1-AP (TPMT antibody) at dilution of 1:100 (under 40x lens)



human kidney tissue were subjected to SDS PAGE followed by western blot with 10682-1-AP (TPMT antibody) at dilution of 1:300



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)

Background

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. This antibody specially recognises the 34 kDa protein.

Applications

Tested applications:	ELISA, WB, IHC, IF
Species specificity:	Human, Mouse, Rat; other species not tested.
Calculated TPMT MW:	28 kDa
Observed TPMT MW:	28-35kd
Positive WB detected in	Human kidney tissue, HeLa cells, mouse kidney tissue
Positive IHC detected in	Human lung cancer tissue
Positive IF detected in	HEK-293 cells
Recommended dilution:	WB: 1:200-1:2000
	IHC: 1:20-1:200
	IF: 1:20-1:200

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag1074
GenBank accession number:	BC005339
Gene ID (NCBI):	7172
Full name:	Thiopurine S-methyltransferase

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.