

## Product datasheet for **TA500965BM**

### TPMT Mouse Monoclonal Antibody (HRP conjugated) [Clone ID: OTI5B4]

#### Product data:

|                         |  |
|-------------------------|--|
| Product Type:           | Primary Antibodies   |
| Clone Name:             | OTI5B4   |
| Applications:           | IHC, WB  |
| Recommended Dilution:   | WB 1:1000, IHC 1:50  |
| Reactivity:             | Human  |
| Host:                   | Mouse  |
| Isotype:                | IgG1   |
| Clonality:              | Monoclonal   |
| Immunogen:              | Full length human recombinant protein of human TPMT (NP_000358) produced in HEK293T cell.  |
| Formulation:            | PBS (pH 7.3) containing 1% BSA, 50% glycerol.  |
| Concentration:          | 0.5 mg/ml  |
| Purification:           | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)  |
| Conjugation:            | HRP  |
| Storage:                | Store at -20°C as received.  |
| Stability:              | Stable for 12 months from date of receipt.   |
| Predicted Protein Size: | 28.2 kDa   |
| Gene Name:              | thiopurine S-methyltransferase   |
| Database Link:          | <a href="#">NP_000358</a><br><a href="#">Entrez Gene 7172 Human P51580</a>   |
| Background:             | This gene encodes the enzyme that metabolizes thiopurine drugs via S-adenosyl-L-methionine as the S-methyl donor and S-adenosyl-L-homocysteine as a byproduct. Thiopurine drugs such as 6-mercaptopurine are used as chemotherapeutic agents. Genetic polymorphisms that affect this enzymatic activity are correlated with variations in sensitivity and toxicity to such drugs within individuals. A pseudogene for this locus is located on chromosome 18q. |



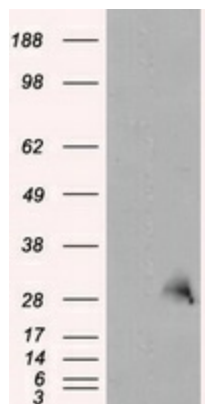
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**Synonyms:** OTTHUMP00000016076; S-adenosyl-L-methionine:thiopurine S-methyltransferase; thiopurine methyltransferase; thiopurine S-methyltransferase

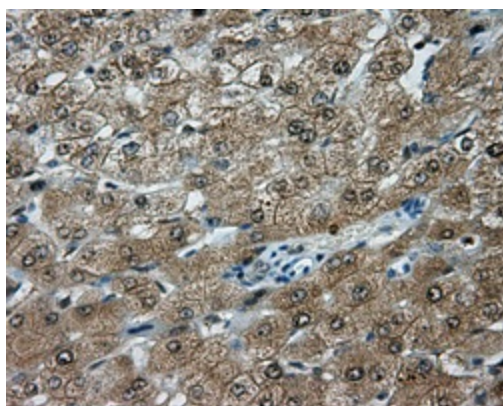
**Protein Families:** Druggable Genome

**Protein Pathways:** Drug metabolism - other enzymes

**Product images:**



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY TPMT ([RC203309], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-TPMT. Positive lysates [LY400131] (100ug) and [LC400131] (20ug) can be purchased separately from OriGene.



Immunohistochemical staining of paraffin-embedded liver tissue within the normal limits using anti-TPMT mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500965], Dilution 1:50)