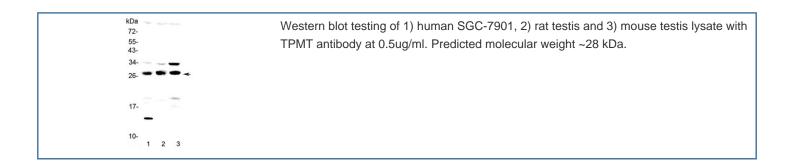


# **TPMT Antibody (RQ4355)**

Catalog No.	Formulation	Size
RQ4355	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

### **Bulk quote request**

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P51580
Localization	Cytoplasmic
Applications	Western Blot : 0.5-1ug/ml Direct ELISA : 0.1-0.5ug/ml
Limitations	This TPMT antibody is available for research use only.



#### **Description**

Thiopurine methyltransferase or thiopurine S-methyltransferase (TPMT) is an enzyme that in humans is encoded by the TPMT gene. 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, causing thiopurine S-methyltransferase deficiency. Related pseudogenes have been identified on chromosomes 3, 18 and X.

## **Application Notes**

Optimal dilution of the TPMT antibody should be determined by the researcher.

### **Immunogen**

A recombinant human protein corresponding to amino acids M1-K245 was used as the immunogen for the TPMT antibody.

### **Storage**

After reconstitution, the TPMT antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.