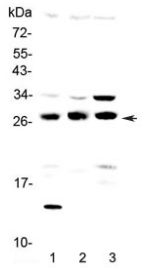
TPMT Antibody (RQ4355)

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
Host	Rabbit
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.



Western blot testing of 1) human SGC-7901, 2) rat testis and 3) mouse testis lysate with TPMT antibody at 0.5ug/ml. Predicted molecular weight ~28 kDa.

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.

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