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Product datasheet for CF501054

TPMT Mouse Monoclonal Antibody [Clone ID: OTI4C1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI4C1
Applications:	FC, IHC, WB
Recommended Dilution:	WB 1:2000, IHC 1:50, Flow 1:100
Reactivity:	Human, Dog
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human TPMT (NP_000358) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
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:	NP_000358 Entrez Gene 403536 DogEntrez Gene 7172 Human P51580

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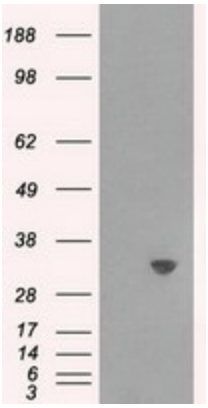
Background: This gene encodes the enzyme that metabolizes thiopurine drugs via S-adenosyl-L-methionine as the S-methyl donor and S-adenosyl-L-homocysteine as a byproduct. Thiopurine drugs such as 6-mercaptopurine are used as chemotherapeutic agents. Genetic polymorphisms that affect this enzymatic activity are correlated with variations in sensitivity and toxicity to such drugs within individuals. A pseudogene for this locus is located on chromosome 18q.

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

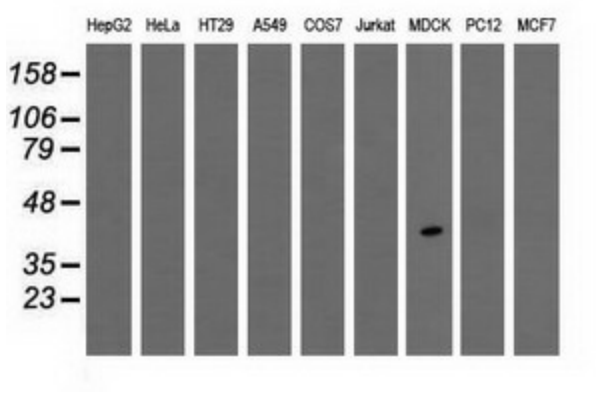
Protein Families: Druggable Genome

Protein Pathways: Drug metabolism - other enzymes

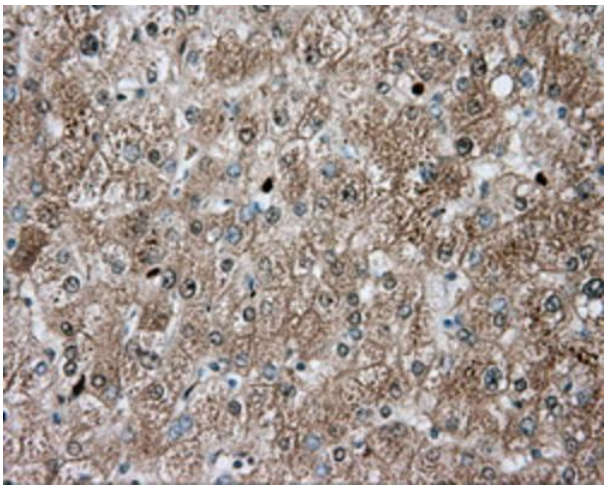
Product images:



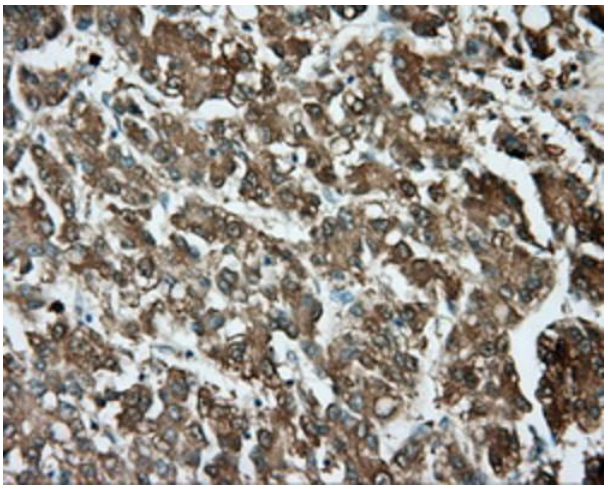
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY TPMT ([RC203309], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-TPMT. Positive lysates [LY400131] (100ug) and [LC400131]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



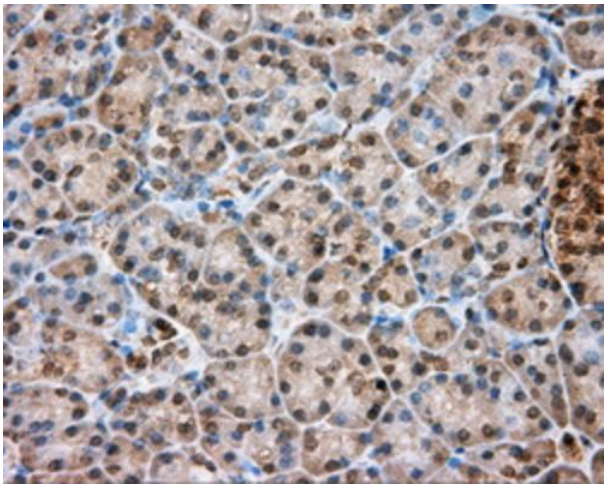
WB analysis of extracts (35ug) from 9 different cell lines by using anti-TPMT monoclonal antibody.



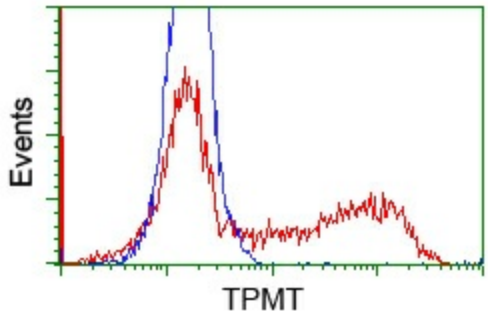
Immunohistochemical staining of paraffin-embedded liver tissue within the normal limits using anti-TPMT mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501054], Dilution 1:50)



Immunohistochemical staining of paraffin-embedded Carcinoma of liver tissue using anti-TPMT mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501054], Dilution 1:50)



Immunohistochemical staining of paraffin-embedded pancreas tissue within the normal limits using anti-PIM2 mouse monoclonal antibody. ([TA501062], Dilution 1:50; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min)



HEK293T cells transfected with either pCMV6-ENTRY TPMT ([RC203309]) (Red) or empty vector control plasmid (Blue) were immunostained with anti-TPMT mouse monoclonal ([TA501054]), and then analyzed by flow cytometry.