

Product datasheet for **TA308802**

Thymidylate Synthase (TYMS) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB:1:500-1:3000
Reactivity:	Human (Predicted: Mouse, Monkey, Pig, Rat, Zebrafish, X. tropicalis)
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Recombinant fragment corresponding to a region within amino acids 122 and 313 of Thymidylate synthetase (Uniprot ID#P04818)
Formulation:	1XPBS, 1% BSA, 20% Glycerol (pH7). 0.025% ProClin 300 was added as a preservative.
Concentration:	lot specific
Purification:	Purified by antigen-affinity chromatography.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	36 kDa
Gene Name:	thymidylate synthetase
Database Link:	NP_001062 Entrez Gene 22171 Mouse Entrez Gene 29261 Rat Entrez Gene 697580 Monkey Entrez Gene 7298 Human P04818



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Background:

Thymidylate synthase catalyzes the methylation of deoxyuridylate to deoxythymidylate using 5,10-methylenetetrahydrofolate (methylene-THF) as a cofactor. This function maintains the dTMP (thymidine-5-prime monophosphate) pool critical for DNA replication and repair. The enzyme has been of interest as a target for cancer chemotherapeutic agents. It is considered to be the primary site of action for 5-fluorouracil, 5-fluoro-2-prime-deoxyuridine, and some folate analogs. Expression of this gene and that of a naturally occurring antisense transcript rTSalpha (GenelD:55556) vary inversely when cell-growth progresses from late-log to plateau phase. [provided by RefSeq]

Synonyms:

HST422; TMS; TS

Note:

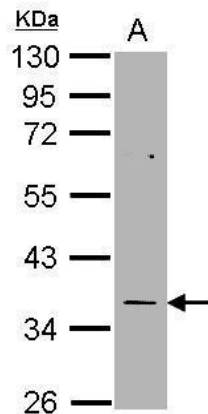
Seq homology of immunogen across species: Mouse (94%), Monkey (98%), Pig (96%), Rat (95%), Zebrafish (87%), Xenopus tropicalis (85%)

Protein Families:

Druggable Genome

Protein Pathways:

Metabolic pathways, One carbon pool by folate, Pyrimidine metabolism

Product images:

Sample (30 ug of whole cell lysate). A: H1299.
10% SDS PAGE. TA308802 diluted at 1:1000.