



Rabbit Anti-Human TYMS Polyclonal Antibody (CABT-L2207)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Polyclonal Antibody to Thymidylate Synthetase (Knockout Validated)
Specificity	The antibody is a rabbit polyclonal antibody raised against TYMS. It has been selected for its ability to recognize TYMS in immunohistochemical staining and western blotting.
Target	TYMS
Immunogen	Recombinant fragment corresponding to human TYMS (Gln36~Val313)
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Rat
Purification	Antigen-specific affinity chromatography followed by Protein A affinity chromatography
Conjugate	Unconjugated
Applications	WB
Format	Liquid
Concentration	Lot specific
Size	200 µg
Buffer	Supplied as solution form in 0.01M PBS with 50% glycerol, pH7.4.
Preservative	0.05% Proclin-300

Storage	Avoid repeated freeze/thaw cycles. Store at 4°C for frequent use. Aliquot and store at -20°C for 12 months.
Ship	4°C with ice bags

BACKGROUND

Introduction	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 (GeneID:55556) vary inversely when cell-growth progresses from late-log to plateau phase. [provided by RefSeq, Jul 2008]
Keywords	TS;TMS;TSase;Thymidylate Synthase

GENE INFORMATION

Gene Name	TYMS thymidylate synthetase [Homo sapiens (human)]
Official Symbol	TYMS
Synonyms	TYMS; thymidylate synthetase; TS; TMS; HST422; thymidylate synthase; TSase;
Entrez Gene ID	7298
Protein Refseq	NP_001062
UniProt ID	P04818
Chromosome Location	18p11.32
Pathway	Cell Cycle; Cell Cycle, Mitotic; E2F mediated regulation of DNA replication; E2F transcription factor network; Fluoropyrimidine Activity; G1/S Transition; G1/S-Specific Transcription; Integrated Pancreatic Cancer Pathway;
Function	cofactor binding; drug binding; folic acid binding; mRNA binding; nucleotide binding; protein homodimerization activity; thymidylate synthase activity;