

## ARG55844 anti-Thymidylate Synthase antibody

Package: 100 µl  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes Thymidylate Synthase
Tested Reactivity	Hu
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Thymidylate Synthase
Species	Human
Immunogen	KLH-conjugated synthetic peptide corresponding to aa. 265-294 (C-terminus) of Human Thymidylate Synthase.
Conjugation	Un-conjugated
Alternate Names	Thymidylate synthase; TMS; TSase; TS; HST422; EC 2.1.1.45

### Application Instructions

Application table	Application	Dilution
	FACS	1:10 - 1:50
	ICC/IF	1:10 - 1:50
	IHC-P	1:50 - 1:100
	WB	1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	HL-60	

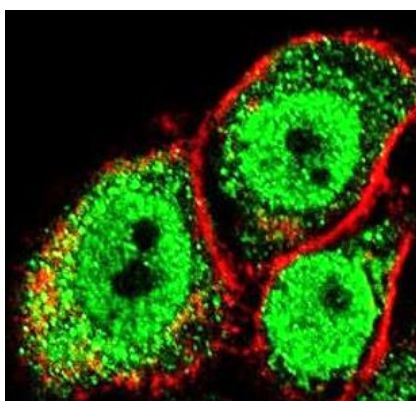
### Properties

Form	Liquid
Purification	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Buffer	PBS and 0.09% (W/V) Sodium azide
Preservative	0.09% (W/V) Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

## Bioinformation

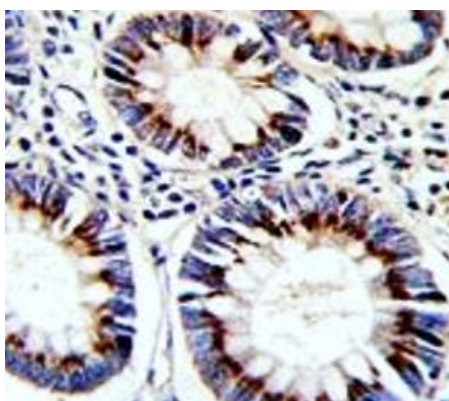
Database links	<a href="#">GeneID: 7298 Human</a> <a href="#">Swiss-port # P04818 Human</a>
Gene Symbol	TYMS
Gene Full Name	thymidylate synthetase
Background	Thymidylate synthase catalyzes the methylation of deoxyuridylate to deoxythymidylate using 5,10-methylenetetrahydrofolate (methylene-THF) as a 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 (GeneID:55556) vary inversely when cell-growth progresses from late-log to plateau phase. [provided by RefSeq, Jul 2008]
Function	Contributes to the de novo mitochondrial thymidylate biosynthesis pathway. [UniProt]
Calculated Mw	36 kDa
Cellular Localization	Nucleus. Cytoplasm. Mitochondrion. Mitochondrion matrix. Mitochondrion inner membrane

## Images



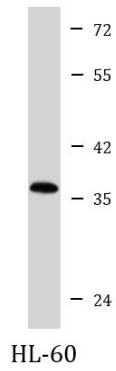
ARG55844 anti-Thymidylate Synthase antibody ICC/IF image

Immunofluorescence: HeLa cells stained with ARG55844 anti-Thymidylate Synthase antibody (green). Actin filaments have been labeled with Alexa Fluor® 555 phalloidin (red).



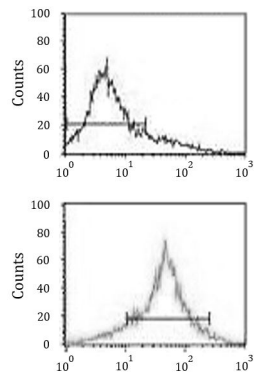
ARG55844 anti-Thymidylate Synthase antibody IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human colon carcinoma stained with ARG55844 anti-Thymidylate Synthase antibody.



#### ARG55844 anti-Thymidylate Synthase antibody WB image

Western blot: 35 µg of HL-60 cell lysate stained with ARG55844 anti-Thymidylate Synthase antibody at 1:1000 dilution.



#### ARG55844 anti-Thymidylate Synthase antibody FACS image

Flow Cytometry: WiDr cells stained with ARG55844 anti-Thymidylate Synthase antibody (bottom histogram) or without primary antibody control (top histogram), followed by incubation with FITC labelled secondary antibody.