

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

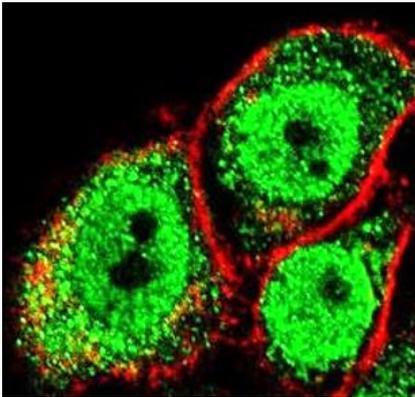
Form	Liquid
Purification	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Buffer	PBS and 0.09% (W/V) Sodium azide
Preservative	0.09% (W/V) Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. 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.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

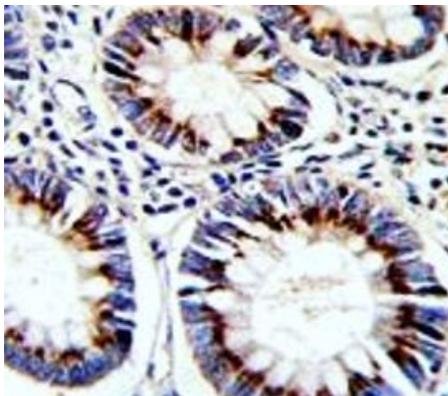
Database links	GeneID: 7298 Human Swiss-port # P04818 Human
Gene Symbol	TYMS
Gene Full Name	thymidylate synthetase
Background	Thymidylate synthase catalyzes the methylation of deoxyuridylate to deoxythymidylate using 5,10-methylenetetrahydrofolate (methylene-THF) as a cofactor. This function maintains 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).

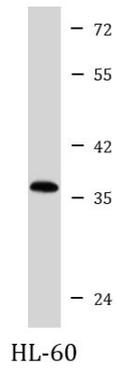


ARG55844 anti-Thymidylate Synthase antibody IHC-P image

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.

