

KD-Validated Anti-Thymidylate Synthase Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI1380

Product Information

Application	WB, FC, ICC
Primary Accession	P04818
Reactivity	Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	25GB3300
Calculated MW	35716
Gene Name	TYMS
Aliases	TYMS; Thymidylate Synthetase; HsT422; Tsase; TMS; TS; Thymidylate Synthase; EC 2.1.1.45; TSase; DKCD
Immunogen	A synthesized peptide derived from human Thymidylate Synthase

Additional Information

Gene ID	7298
Other Names	Thymidylate synthase, TS, TSase, 2.1.1.45, TYMS (HGNC:12441), TS

Protein Information

Name	TYMS (HGNC:12441)
Synonyms	TS
Function	Catalyzes the reductive methylation of 2'-deoxyuridine 5'- monophosphate (dUMP) to thymidine 5'-monophosphate (dTMP), using the cosubstrate, 5,10-methylenetetrahydrofolate (CH ₂ H ₄ folate) as a 1- carbon donor and reductant and contributes to the mitochondrial and nuclear de novo thymidylate biosynthesis pathway.
Cellular Location	Nucleus. Cytoplasm Mitochondrion. Mitochondrion matrix. Mitochondrion inner membrane. Note=Localized to the nucleus during S and G2/M phases of the cell cycle. As a component of the de novo thymidylate synthesis complex, localizes specifically to replication forks during DNA synthesis (PubMed:22235121)

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