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Thymidylate Synthase Antibody

Rabbit mAb
Catalog # AP91518

Product Information

Application	WB, IHC, IF, FC, ICC, IP, IHF
Primary Accession	P04818
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Other Names	d TMP synthase; HsT422; Thymidylate synthase; TMS; TS; TSase; Tyms; TYMS protein; Tyms thymidylate synthetase;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	35716

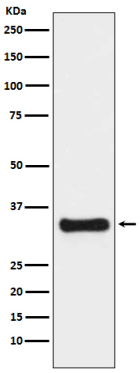
Additional Information

Dilution	WB 1:500~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200 IP 1:50 FC 1:50
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human Thymidylate Synthase
Description	Contributes to the de novo mitochondrial thymidylate biosynthesis pathway.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

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 (CH2H4folate) 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)

Images



Western blot analysis of Thymidylate Synthase expression in HeLa cell lysate.

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