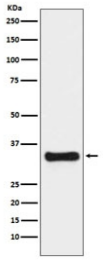
Thymidylate Synthase Antibody [clone ADAA-20] (RQ5083)

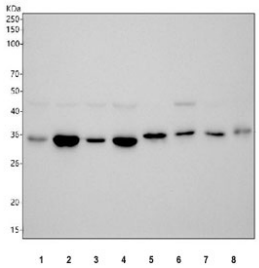
Catalog No.	Formulation	Size
RQ5083	Antibody in PBS with 0.02% sodium azide, 50% glycerol and 0.4-0.5mg/ml BSA	100 ul

Bulk quote request

Availability	1-2 weeks
Species Reactivity	Human, Mouse, Rat, Monkey
Format	Purified
Host	Rabbit
Clonality	Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	ADAA-20
Purity	Affinity purified
UniProt	P04818
Applications	Western blot: 1:500-1:2000
Limitations	This Thymidylate Synthase antibody is available for research use only.



Western blot testing of human HeLa cell lysate with Thymidylate Synthase antibody. Predicted molecular weight ~36 kDa.



Western blot testing of 1) human HeLa, 2) human Jurkat, 3) human 293T, 4) monkey COS-7, 5) rat thymus, 6) rat PC-12, 7) mouse thymus and 8) mouse SP2/0 cell lysate with Thymidylate Synthase antibody. Predicted molecular weight ~36 kDa.

Description

Thymidylate synthase catalyzes the methylation of deoxyuridylate to deoxythymidylate using, 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, mitochondrial enolase superfamily member 1, vary inversely when cell-growth progresses from late-log to plateau phase. Polymorphisms in this gene may be associated with etiology of neoplasia, including breast cancer, and response to chemotherapy. [RefSeq]

Application Notes

Optimal dilution of the Thymidylate Synthase antibody should be determined by the researcher.

Immunogen

A synthetic peptide specific to human Thymidylate Synthase / TYMS was used as the immunogen for the Thymidylate Synthase antibody.

Storage

Store the Thymidylate Synthase antibody at -20oC.

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