

## Thymidylate Synthase Rabbit mAb

Catalog No: #49618

Package Size: #49618-1 50ul #49618-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

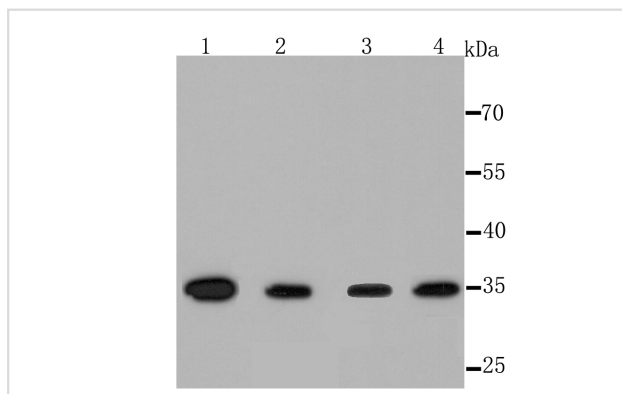
## Description

Product Name	Thymidylate Synthase Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	JM33-20
Purification	ProA affinity purified
Applications	WB, IHC, IP, FC
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Other Names	d TMP synthase antibody EC 2.1.1.45 antibody HsT422 antibody MGC88736 antibody OTTHUMP00000162195 antibody Thymidylate synthase antibody Thymidylate synthetase antibody TMS antibody TS antibody TSase antibody Tysm antibody TYMS protein antibody Tysm thymidylate synthetase antibody TYSY_HUMAN antibody
Accession No.	Swiss-Prot#:P04818
Uniprot	P04818
GeneID	7298;
Calculated MW	36 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

## Application Details

WB: 1:500-1:2,000 IHC: 1:50-1:200FC: 1:50-1:100

## Images



Western blot analysis of Thymidylate Synthase on different cell lysate using anti-Thymidylate Synthase antibody at 1/1,000 dilution.

Positive control: 1/1,000 dilution

Lane1: HeLa

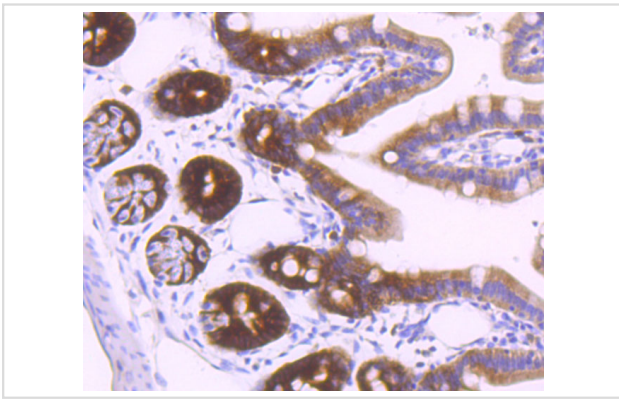
Lane2: Jurkat

Lane3: Raji

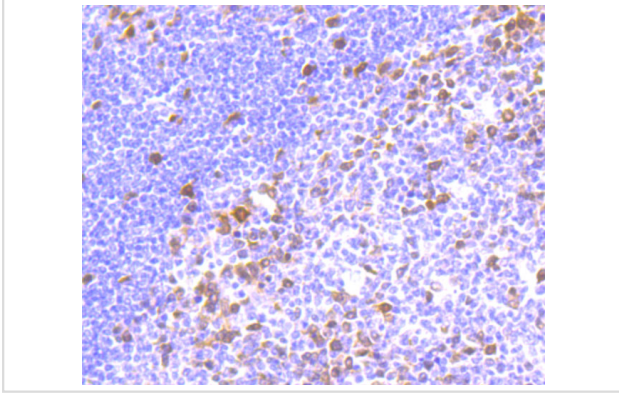
Lane4: Mouse testes

Lane5: Mouse brain

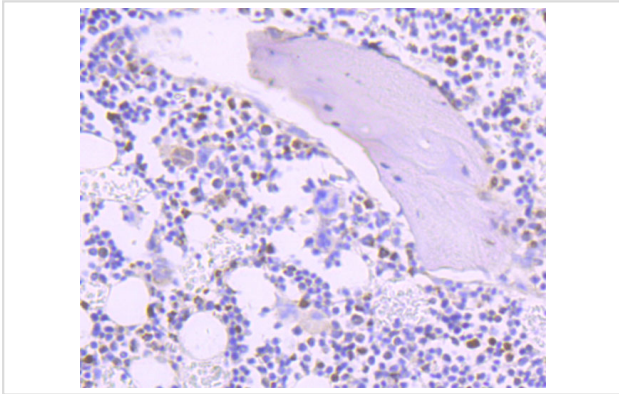
Lane6: Mouse spleen



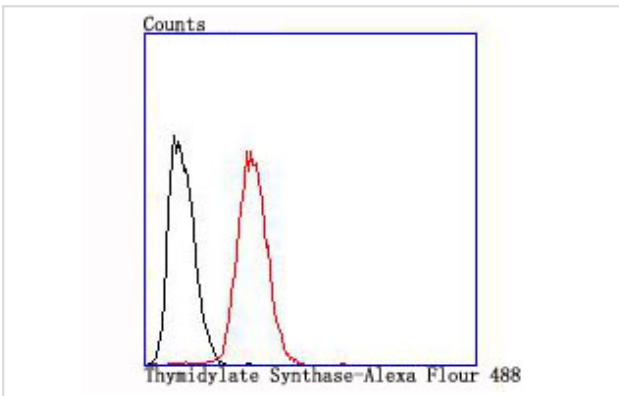
Immunohistochemical analysis of paraffin-embedded mouse colon tissue using anti-Thymidylate Synthase antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-Thymidylate Synthase antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded rat bone tissue using anti-Thymidylate Synthase antibody. Counter stained with hematoxylin.



Flow cytometric analysis of Hela cells with Thymidylate Synthase antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black).

## Background

Thymidylate synthase (TS), also designated TYMS, TMS, TSase and HsT422, uses 5,10-methylenetetrahydrofolate (methylene-THF) as a cofactor in the synthesis of 2'-deoxythymidine-5'-monophosphate (dTMP), an essential precursor for DNA biosynthesis. TS is an RNA-binding protein that can interact with its own mRNA. The TS/mRNA ribonucleoprotein complex can also associate with a number of other cellular mRNAs, including those corresponding to the p53 tumor suppressor gene and the Myc family of transcription factors. Inhibition of DNA replication and cell death resulting from thymidine depletion occurs when TS enzyme activity is inhibited with substrate or cofactor analogs, making the TS enzyme an important target for chemotherapy. Cancer cells are sensitive to thymidine depletion, as they multiply rapidly.

## References

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Note: This product is for in vitro research use only