

# Recombinant Thymidylate Synthase Monoclonal Antibody

catalog number: AN301812L

Note: Centrifuge before opening to ensure complete recovery of vial contents.

#### **Description**

Reactivity Human; Rat; Mouse

Immunogen Recombinant human Thymidylate Synthase fragment

 Host
 Rabbit

 Isotype
 IgG, κ

 Clone
 A524

Purification Protein Apurified

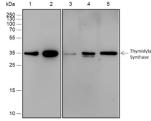
Buffer PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

## Applications Recommended Dilution

WB 1:500-1:2000

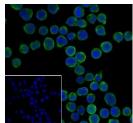
**IF** 1:50 **FCM** 1:50-1:100

#### Data



Western Blot with Thymidylate Synthase Monoclonal
Antibody at dilution of 1:2000. Lane 1: HeLa, Lane 2: Jurkat,
Lane 3: HepG2, Lane 4: RAW 264.7, Lane 5: C6

Observed-MW:36 kDa Calculated-MW:36 kDa

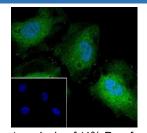


Immunofluorescent analysis of (4% Paraformaldehyde) fixed

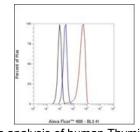
Jurkat cells using anti-Thymidylate Synthase Monoclonal

Antibody at dilution of 1:50.

Flow cytometric analysis of human Thymidylate Synthase expression on HeLa cells. Cells were stained with purified anti-Human Thymidylate Synthase, then a Alexa Fluor 488



Immunofluorescent analysis of (4% Paraformaldehyde) fixed HeLa cells using anti-Thymidylate Synthase Monoclonal Antibody at dilution of 1:50.



expression on HeLa cells. Cells were stained with purified anti-Human Thymidylate Synthase, then a Alexa Fluor 488-conjugated second step antibody. The histogram were derived from events with the forward and side light-scatter characteristics of intact cells.

## **Preparation & Storage**

Storage Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.

Shipping Ice bag

## Background

#### For Research Use Only

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Thymidylate synthase is a homodimer composed of two 30 kDa subunits, which catalyze the methylation of deoxyuridine monophosphate (dUMP) to deoxythymidine monophosphate (dTMP), an essential step in the formation of thymine nucleotides. Thymidylate synthase is an intracellular enzyme that provides the sole de novo source of thymidylate, making it a required enzyme in DNA biosynthesis with activity highest in proliferating cells. Being the exclusive source of dTMP, investigators have concluded that TS is also an important target for anticancer agents such as 5-fluorouracil (5-FU). 5-FU acts as a TS inhibitor and is active against solid tumors such as colon, breast, head, and neck.

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