Recombinant Thymidylate Synthase Monoclonal Antibody

catalog number: **AN301812L**

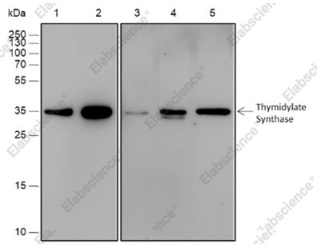
Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

Reactivity	Human;Mouse;Rat
Immunogen	Recombinant human Thymidylate Synthase fragment
Host	Rabbit
Isotype	Rabbit IgG
Clone	C171434
Purification	Protein A purified
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

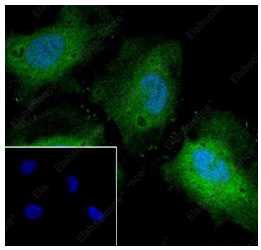
Data



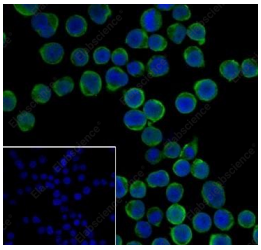
Western Blot with Thymidylate Synthase Monoclonal Antibody at dilution of 1:2000. Lane 1: HeLa, Lane 2: Jurkat, Lane 3: HepG2, Lane 4: RAW 264.7, Lane 5: C6

Observed-MW:36 kDa

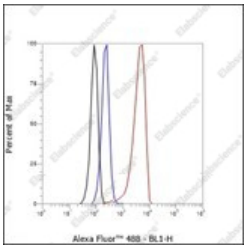
Calculated-MW:36 kDa



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



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-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

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Background

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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