

Datasheet for ABIN6940823

Recombinant anti-TYMS antibody (AA 60-174)[Go to Product page](#)**3** Images

Overview

Quantity:	100 µg
Target:	TYMS
Binding Specificity:	AA 60-174
Reactivity:	Human
Host:	Mouse
Antibody Type:	Recombinant Antibody
Clonality:	Monoclonal
Conjugate:	This TYMS antibody is un-conjugated
Application:	Immunofluorescence (IF), Flow Cytometry (FACS), ELISA, Radioimmunoassay (RIA), Coating (Coat)

Product Details

Immunogen:	Recombinant human thymidylate synthase protein fragment (around aa 60-174) (exact sequence is proprietary)
Clone:	RTYMS-1884
Isotype:	IgG1 kappa
Specificity:	It recognizes a protein of 36 kDa, identified as Thymidylate Synthase (TS) (EC 2.1.1.45). It converts deoxyuridine monophosphate (dUMP) to deoxythymidine monophosphate (dTMP), which is essential for DNA biosynthesis. TS is also a critical target for the fluoropyrimidines, an important group of antineoplastic drugs that are widely used in the treatment of solid tumors. Both 5-FU and fluorodeoxyuridine are converted in tumor cells to FdUMP which inactivates TS

Product Details

by formation of a ternary covalent complex in the presence of the folate cofactor 5,10-methylenetetrahydrofolate. Expression of TS protein has been reported to associate with response to 5-fluorouracil (5-FU) in human colorectal, gastric, head and neck, and breast carcinomas.

Purification: Purified by Protein A/G

Target Details

Target: TYMS

Alternative Name: TYMS ([TYMS Products](#))

Target Type: Viral Protein

Molecular Weight: 36kDa

Gene ID: 7298

UniProt: [P04818](#)

Pathways: [Mitotic G1-G1/S Phases](#)

Application Details

Application Notes: Positive Control: MOLT4, Ramos, 5-FU-resistant colon carcinoma cell lines (NCI H630R10, NCI H630R1), 5-FU-resistant breast cancer cell lines, MCF-Ad5 and MCF-Ad10. Testicular carcinomas.

Known Application: ELISA (For coating, order antibody without BSA), Flow Cytometry (0.5-1 µg/million cells), Immunofluorescence (0.5-1 µg/mL), Optimal dilution for a specific application should be determined.

Restrictions: For Research Use only

Handling

Concentration: 200 µg/mL

Buffer: 10 mM PBS with 0.05 % BSA & 0.05 % azide.

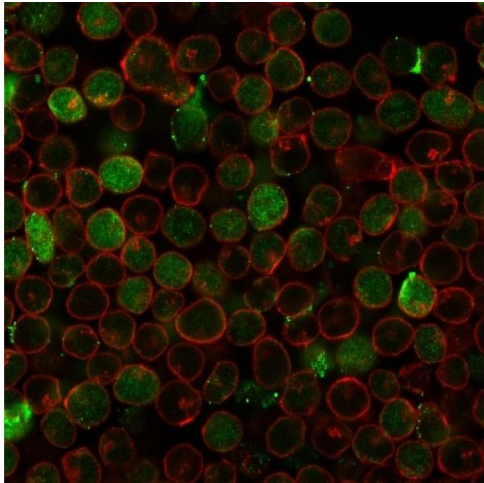
Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

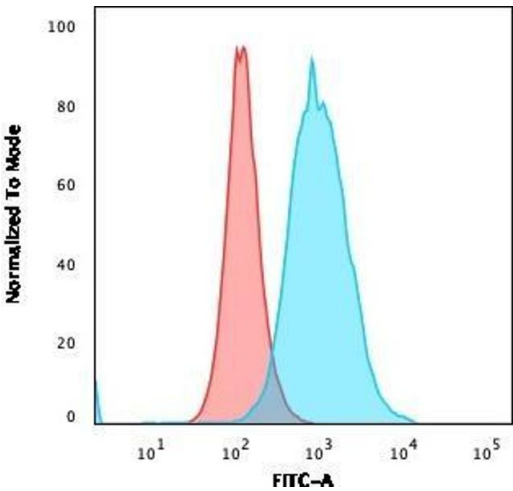
Storage:	4 °C
Storage Comment:	Antibody with azide - store at 2 to 8°C. Antibody is stable for 24 months. ,Non-hazardous. No MSDS required.
Expiry Date:	24 months

Images



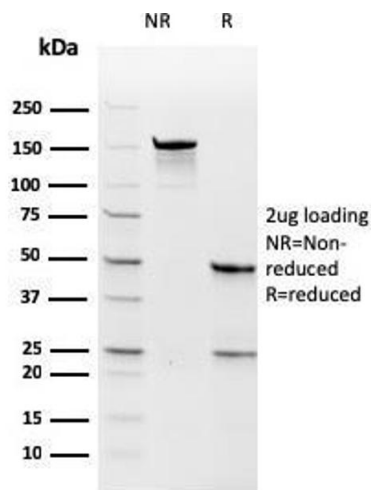
Immunofluorescence

Image 1. Immunofluorescence Analysis of PFA fixed MOLT-4 cells labeling Thymidylate Synthase Recombinant Mouse Monoclonal (rTYMS/1884) followed by Goat anti-mouse IgG-CF488 (Green). Membrane is labeled with Phalloiden (Red).



Flow Cytometry

Image 2. Flow Cytometric Analysis of PFA-fixed MOLT4 cells. TYMS Recombinant Mouse Monoclonal Antibody (rTYMS/1884) followed by goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).



SDS-PAGE

Image 3. SDS-PAGE Analysis Purified TYMS Recombinant Mouse Monoclonal Antibody (rTYMS/1884). Confirmation of Purity and Integrity of Antibody.