

Datasheet for ABIN6940818

**anti-TYMS antibody****2** Images[Go to Product page](#)

## Overview

Quantity:	100 µg
Target:	TYMS
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This TYMS antibody is un-conjugated
Application:	Immunofluorescence (IF), Flow Cytometry (FACS), Immunohistochemistry (IHC), Immunostaining (Ist), Radioimmunoassay (RIA), Staining Methods (StM)

## Product Details

Immunogen:	Recombinant full-length human TYMS protein.
Clone:	TS106
Isotype:	IgG1 kappa
Specificity:	It recognizes a protein of 36 kDa, identified as Thymidylate Synthase (TS) (EC 2.1.1.45). TS 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 by formation of a ternary covalent complex in the presence of the folate cofactor 5,10-methylenetetrahydrofolate. Expression of TS protein is associated with response to 5-fluorouracil (5-FU) in human colorectal, gastric, head and neck, and breast carcinomas.

## Product Details

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: 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: Flow Cytometry (0.5-1 µg/million cells), Immunofluorescence (0.5-1 µg/mL), Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT),(Staining of formalin-fixed tissues is enhanced by boiling tissue sections in 10 mM Citrate Buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes),Optimal dilution for a specific application should be determined.

Restrictions: For Research Use only

## Handling

Concentration: 200 µg/mL

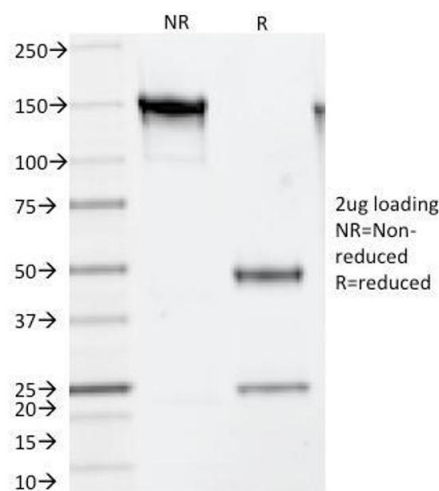
Buffer: 10 mM PBS with 0.05 % BSA & 0.05 % azide.

Preservative: Sodium azide

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

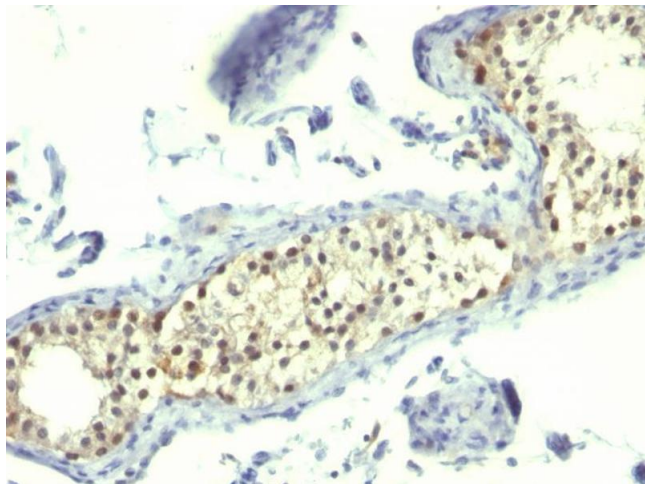
Storage: 4 °C

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



#### SDS-PAGE

**Image 1.** SDS-PAGE Analysis Purified Thymidylate Synthase Mouse Monoclonal Antibody (TS106). Confirmation of Purity and Integrity of Antibody.



#### Immunohistochemistry

**Image 2.** Formalin-fixed, paraffin-embedded human Testicular Carcinoma stained with Thymidylate Synthase Mouse Monoclonal Antibody (TS106).