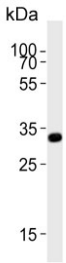
# TYSY Antibody / Thymidylate Synthase (F54872)

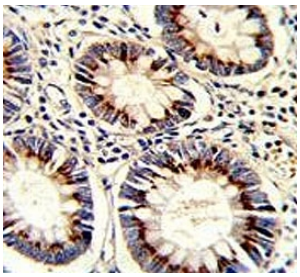
| Catalog No. | Formulation | Size |
|---|---|---|
| F54872-0.4ML | In 1X PBS, pH 7.4, with 0.09% sodium azide | 0.4 ml |
| F54872-0.08ML | In 1X PBS, pH 7.4, with 0.09% sodium azide | 0.08 ml |

**Bulk quote request**

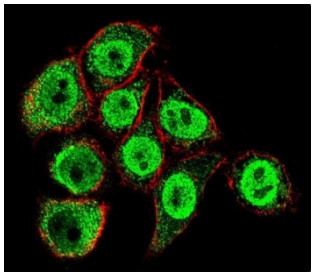
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human |
| **Format** | Purified |
| **Host** | Rabbit |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit Ig |
| **Purity** | Antigen affinity purified |
| **UniProt** | P04818 |
| **Localization** | Cytoplasmic, nuclear |
| **Applications** | Western Blot : 1:500-1:1000<br>Immunofluorescence : 1:10-1:50<br>Flow Cytometry : 1:10-1:50 (1x10e6 cells)<br>Immunohistochemistry (FFPE) : 1:50-1:100 |
| **Limitations** | This TYSY antibody is available for research use only. |



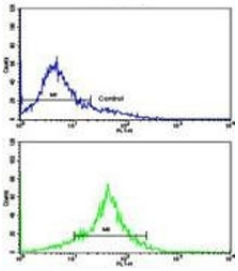

Western blot testing of human Jurkat cell lysate with TYSY antibody. Predicted molecular weight ~36 kDa.



IHC testing of FFPE human colon carcinoma tissue with TYSY antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



Immunofluorescent staining of human HeLa cells with TYSY antibody (green) and anti-Actin (red).



Flow cytometry testing of fixed and permeabilized human WiDr cells with TYSY antibody; Blue=isotype control, Green= TYSY antibody.

## Description

Thymidylate synthase catalyzes the methylation of deoxyuridylate to deoxythymidylate using 5,10-methylenetetrahydrofolate (methylene-THF) as a cofactor. This function maintains the dTMP (thymidine-5-prime monophosphate) pool critical for DNA replication and repair. The enzyme has been of interest as a target for cancer chemotherapeutic agents. It is considered to be the primary site of action for 5-fluorouracil, 5-fluoro-2-prime-deoxyuridine, and some folate analogs.

## Application Notes

The stated application concentrations are suggested starting points. Titration of the TYSY antibody may be required due to differences in protocols and secondary/substrate sensitivity.

## Immunogen

A portion of amino acids 265-294 from the human protein was used as the immunogen for the TYSY antibody.

## Storage

Aliquot the TYSY antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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