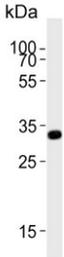


## TYSY Antibody / Thymidylate Synthase (F54872)

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

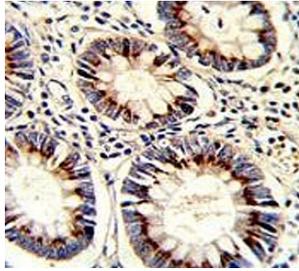
[Bulk quote request](#)

<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Purified
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit Ig
<b>Purity</b>	Antigen affinity purified
<b>UniProt</b>	P04818
<b>Localization</b>	Cytoplasmic, nuclear
<b>Applications</b>	Western Blot : 1:500-1:1000 Immunofluorescence : 1:10-1:50 Flow Cytometry : 1:10-1:50 (1x10 <sup>6</sup> cells) Immunohistochemistry (FFPE) : 1:50-1:100
<b>Limitations</b>	This TYSY antibody is available for research use only.

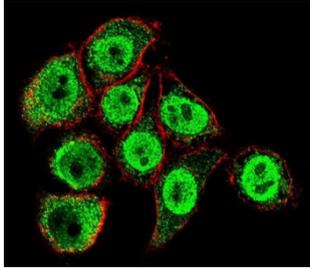


kDa  
100-  
55-  
35-  
25-  
15-

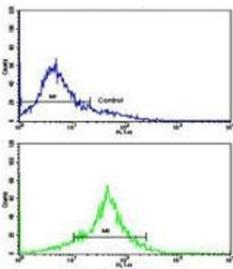
Western blot testing of human Jurkat cell lysate with TYSY antibody. Predicted molecular weight ~36 kDa.



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.

