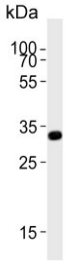
TYSY Antibody / Thymidylate Synthase (F54872)

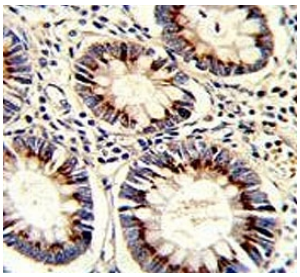
Catalog No.	Formulation	Size
F54872-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F54872-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

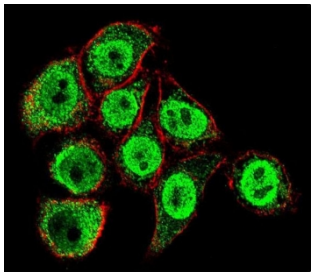
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity purified
UniProt	P04818
Localization	Cytoplasmic, nuclear
Applications	Western blot: 1:500-1:1000 Immunofluorescence: 1:10-1:50 Flow cytometry: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



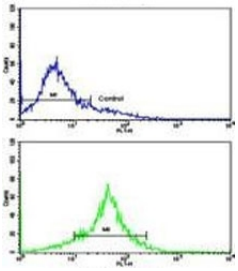
Western blot testing of human Jurkat cell lysate with TYSY antibody. Predicted molecular weight ~36 kDa.



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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