

## [KO Validated] TYSY polyclonal antibody

Catalog: BS78234

Host: Rabbit

Reactivity: Human, Mouse, Rat

### BackGround:

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. Expression of this gene and that of a naturally occurring antisense transcript rTSalpha (GeneID:55556) vary inversely when cell-growth progresses from late-log to plateau phase.

### Product:

1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

### Molecular Weight:

36KDa

### Swiss-Prot:

P04818

### Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB, 1:500 - 1:2000 | IHC, 1:50 - 1:200 | IF/ICC, 1:50 - 1:200

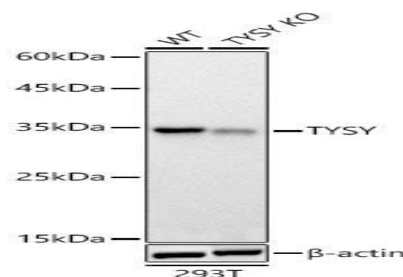
### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

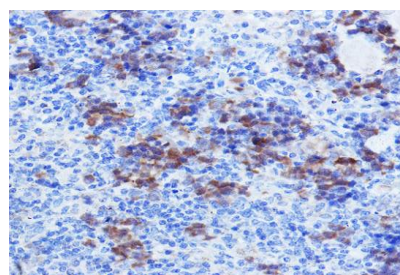
### Modification:

Unmodification

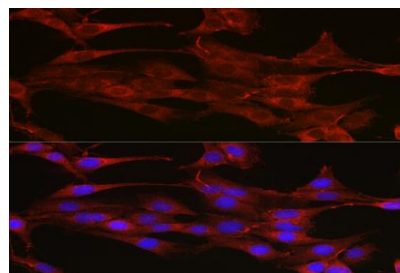
### DATA:



Western blot analysis of extracts from wild type and TYSY knockout 293T cells, using TYSY antibody at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit. Exposure time: 10s.



Immunohistochemistry of paraffin-embedded mouse spleen using TYMS Rabbit pAb at dilution of 1:100. Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Immunofluorescence analysis of C6 cells using TYMS Rabbit pAb at dilution of 1:100. Blue: DAPI for nuclear staining.

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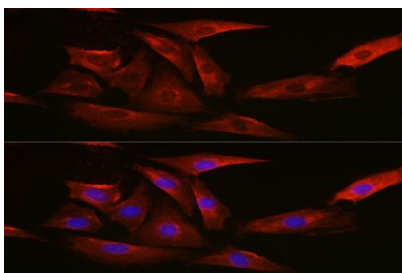
Tel: 0086-025-68037686

Fax: 0086-025-68035151



## PRODUCT DATA SHEET

Bioworld Technology, Inc.



Immunofluorescence analysis of NIH-3T3 cells using TYMS Rabbit  
pAb at dilution of 1:100 . Blue: DAPI for nuclear staining.

### Note:

For research use only, not for use in diagnostic procedure.

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