

TYSY Antibody (C-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5168**Specification**

TYSY Antibody (C-term) - Product Information

Application	WB,E
Primary Accession	P04818
Reactivity	Human
Predicted	Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	H=36;M=35;Rat=35 KDa
Isotype	Rabbit IgG
Antigen Source	HUMAN

TYSY Antibody (C-term) - Additional Information**Gene ID** 7298**Antigen Region**
265-294**Other Names**
TYMS; TS; Thymidylate synthase**Dilution**
WB~~1:1000**Target/Specificity**
This TYSY antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 265-294 amino acids from the C-terminal region of human TYSY.**Format**
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.**Storage**
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.**Precautions**
TYSY Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.**TYSY Antibody (C-term) - Protein Information****Name** TYMS ([HGNC:12441](#))

Synonyms TS

Function

Catalyzes the reductive methylation of 2'-deoxyuridine 5'- monophosphate (dUMP) to thymidine 5'-monophosphate (dTMP), using the cosubstrate, 5,10- methylenetetrahydrofolate (CH₂H₄folate) as a 1- carbon donor and reductant and contributes to the de novo mitochondrial thymidylate biosynthesis pathway.

Cellular Location

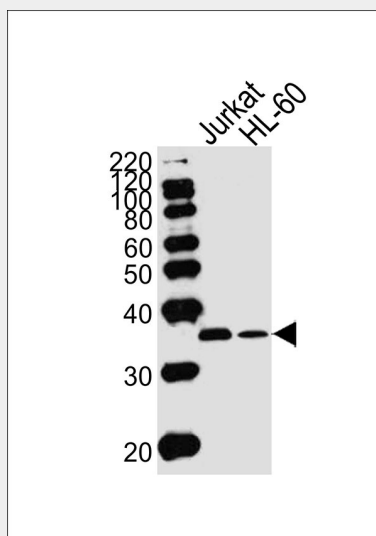
Nucleus. Cytoplasm. Mitochondrion. Mitochondrion matrix. Mitochondrion inner membrane

TYSY Antibody (C-term) - Protocols

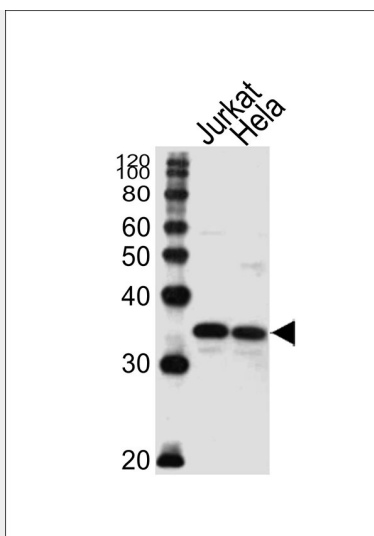
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

TYSY Antibody (C-term) - Images



Western blot analysis of lysates from Jurkat, HL-60 cell line (from left to right), using TYSY Antibody (C-term)(Cat. #AW5168). AW5168 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody.



Western blot analysis of lysates from Jurkat, HeLa cell line (from left to right), using TYSY Antibody (C-term) (Cat. #AW5168). AW5168 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L (HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20 µg per lane.

TYSY Antibody (C-term) - 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.

TYSY Antibody (C-term) - References

Ren, D.N., J Surg Oncol (2009) Schiffer, C.A., Biochemistry 34 (50), 16279-16287 (1995)