

DTYMK Antibody (C-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7060b**Specification**

DTYMK Antibody (C-term) - Product Information

Application	WB,E
Primary Accession	P23919
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	23819
Antigen Region	164-194

DTYMK Antibody (C-term) - Additional Information**Gene ID** 1841**Other Names**

Thymidylate kinase, dTMP kinase, DTYMK, CDC8, TMPK, TYMK

Target/Specificity

This DTYMK antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 164-194 amino acids from the C-terminal region of human DTYMK.

Dilution

WB~~1:1000

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

DTYMK Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

DTYMK Antibody (C-term) - Protein Information**Name** DTYMK**Synonyms** CDC8, TMPK, TYMK**Function** Catalyzes the phosphorylation of thymidine monophosphate (dTMP) to thymidine

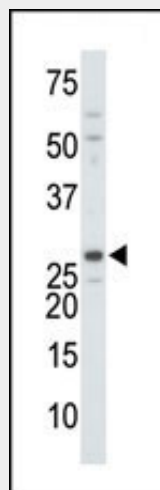
diphosphate (dTDP), the immediate precursor for the DNA building block dTTP, with ATP as the preferred phosphoryl donor in the presence of $Mg(2+)$.

DTYMK 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](#)

DTYMK Antibody (C-term) - Images



The anti-DTYMK Pab (Cat. #AP7060b) is used in Western blot to detect DTYMK in mouse colon tissue lysate.

DTYMK Antibody (C-term) - Background

Thymidylate kinase (DTYMK) catalyzes the phosphorylation of dTMP to form dTDP in the dTTP synthesis pathway for DNA synthesis. DTYMK is essential for DNA synthesis and is an important intermediate enzyme in the pathway of many pyrimidine analog drugs, including 5-Fluorouracil (5-FU), the chemotherapeutic drug of choice for several solid tumors. The human DTYMK gene was isolated via functional complementation of a *Saccharomyces cerevisiae* cell cycle mutant, *cdc8*. DTYMK mRNA levels and enzyme activities are regulated at the level of cell cycle and cell growth pathways.