

For Research Use Only

# DTYMK Polyclonal antibody

Catalog Number: 15360-1-AP

Featured Product

5 Publications



## Basic Information

**Catalog Number:**

15360-1-AP

**Size:**

300 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG7606

**GenBank Accession Number:**

BC001827

**GeneID (NCBI):**

1841

**UNIPROT ID:**

P23919

**Full Name:**

deoxythymidylate kinase  
(thymidylate kinase)

**Calculated MW:**

24 kDa

**Observed MW:**

24 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:2400

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:20-1:200

IF 1:10-1:100

## Applications

**Tested Applications:**

FC, IF/ICC, IHC, IP, WB, ELISA

**Cited Applications:**

WB, IHC

**Species Specificity:**

human, mouse

**Cited Species:**

human

**Positive Controls:**

**WB:** HeLa cells, HepG2 cells, human brain tissue, human heart tissue, mouse brain tissue

**IP:** HeLa cells,

**IHC:** human colon cancer tissue,

**IF:** MCF-7 cells, HepG2 cells

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

DTYMK(Thymidylate kinase) is also named as CDC8,TMPK and TYMK.It catalyzes the phosphorylation of dTMP to form dTDP in the dTTP synthesis pathway for DNA synthesis.This enzyme is important in cellular DNA synthesis because the synthesis of dTTP either via the de novo pathway or through the exogenous supply of thymidine requires the activity of this enzyme(PMID:18469).

## Notable Publications

Author	Pubmed ID	Journal	Application
Fengze Sun	34795209	Cell Death Dis	WB,IHC
Henrick Horita	29786648	Proteomes	WB
Tianfeng Lan	35903153	Front Mol Biosci	WB

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

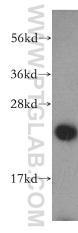
T: 4006900926

E: Proteintech-CN@ptglab.com

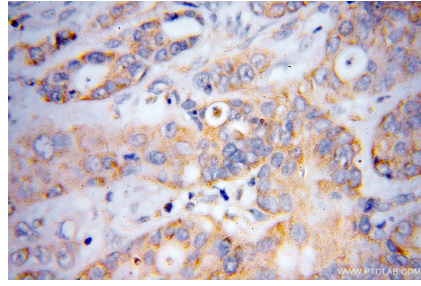
W: ptgcn.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

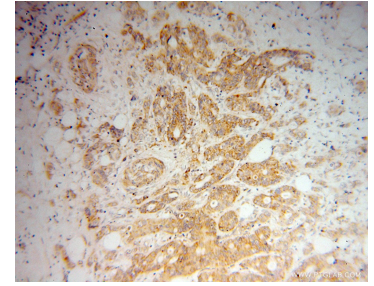
## Selected Validation Data



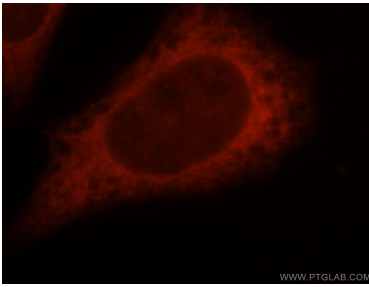
HeLa cells were subjected to SDS PAGE followed by western blot with 15360-1-AP (DTYMK antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



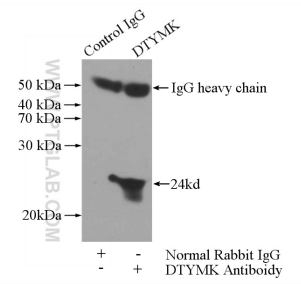
Immunohistochemical analysis of paraffin-embedded human colon cancer using 15360-1-AP (DTYMK antibody) at dilution of 1:100 (under 40x lens).



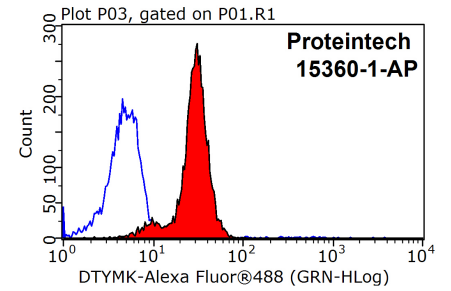
Immunohistochemical analysis of paraffin-embedded human colon cancer using 15360-1-AP (DTYMK antibody) at dilution of 1:100 (under 10x lens).



Immunofluorescent analysis of MCF-7 cells, using DTYMK antibody 15360-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



IP result of anti-DTYMK (IP:15360-1-AP, 3ug; Detection:15360-1-AP 1:1000) with HeLa cells lysate 2800ug.



$1 \times 10^6$  MCF-7 cells were stained with 0.2ug DTYMK antibody (15360-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1500.