



## Rabbit Anti-thymidine phosphorylase antibody

SL3809R

<b>Product Name:</b>	thymidine phosphorylase
<b>Chinese Name:</b>	胸苷磷酸化酶抗体
<b>Alias:</b>	ECGF 1; PDEGF; ECGF1; Endothelial cell growth factor 1; Endothelial cell growth factor 1 platelet derived; Gliostatin; hPD ECGF; MNGIE; PD ECGF; PDECGF; PDEGF; Platelet derived endothelial growth factor; TdRPase; TP; TYMP; Thymidine Phosphorylase; TYPH_HUMAN; TdRPase.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	50kDa
<b>Cellular localization:</b>	cytoplasmic
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human Thymidine Phosphorylase:121-220/482
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	In the presence of inorganic orthophosphate, the platelet-derived endothelial growth factor (PD-ECGF) thymidine phosphorylase (TP) (gliostatin) catalyses the reversible phospholytic cleavage of thymidine and deoxyuridine to their corresponding bases and

2-deoxyribose-1-phosphate. It is both chemotactic and mitogenic for endothelial cells and a non-heparin binding angiogenic factor present in platelets. It is also involved in transformation of fluoropyrimidines, cytotoxic agents used in the treatment of a variety of malignancies, into active cytotoxic metabolites.

**Function:**

May have a role in maintaining the integrity of the blood vessels. Has growth promoting activity on endothelial cells, angiogenic activity in vivo and chemotactic activity on endothelial cells in vitro.

Catalyzes the reversible phosphorolysis of thymidine. The produced molecules are then utilized as carbon and energy sources or in the rescue of pyrimidine bases for nucleotide synthesis.

**Subunit:**

Homodimer.

**DISEASE:**

Defects in TYMP are the cause of mitochondrial DNA depletion syndrome type 1 (MTDPS1) [MIM:603041]; also known as myoneurogastrointestinal encephalomyopathy. A multisystem disease associated with mitochondrial dysfunction. It is clinically characterized by onset between the second and fifth decades of life, ptosis, progressive external ophthalmoplegia, gastrointestinal dysmotility (often pseudoobstruction), diffuse leukoencephalopathy, thin body habitus, peripheral neuropathy, and myopathy.

**Similarity:**

Belongs to the thymidine/pyrimidine-nucleoside phosphorylase family.

**SWISS:**

P19971

**Gene ID:**

1890

**Database links:**

[Entrez Gene: 1890](#)Human

[Entrez Gene: 72962](#)Mouse

[Entrez Gene: 315219](#)Rat

[Oimim: 131222](#)Human

[SwissProt: P19971](#)Human

[SwissProt: Q99N42](#)Mouse

[SwissProt: Q5FVR2](#)Rat

[Unigene: 180903](#)Human

[Unigene: 730607](#)Human

[Unigene: 287977](#)Mouse

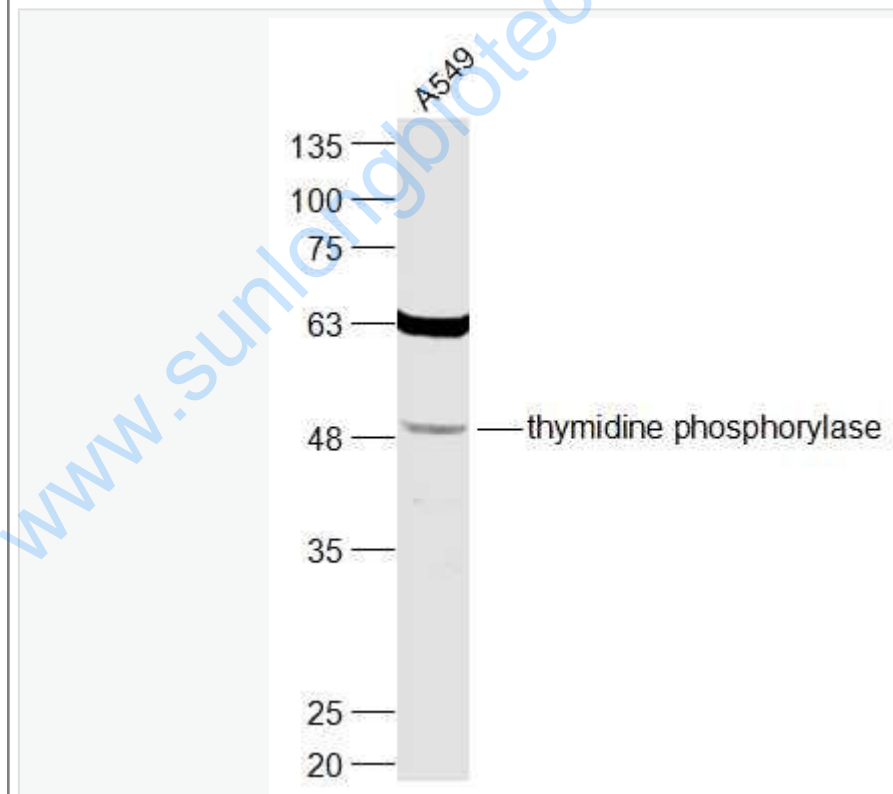
[Unigene: 219088](#)Rat

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

胸苷磷酸化酶 (TP) 是一种分子量为 50-55kDa 的蛋白, 在氟嘧啶转化过程中起重要作用。TP 具有血管生成活性, 与血小板源性 endothelial cells 生长因子的结构和作用相似, 因此又被称为 Tumour 相关血管生长因子。其可能通过血管生成作用促进癌细胞的生长和转移。

Picture:



Sample:

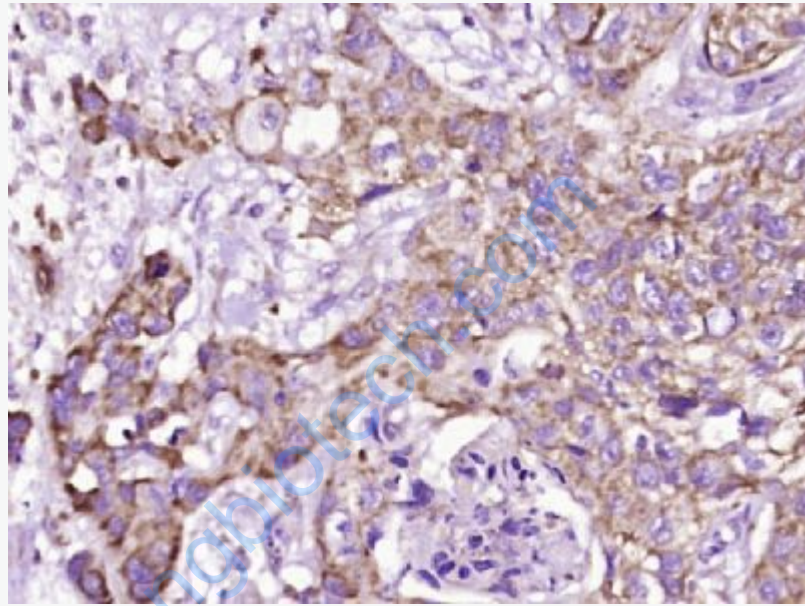
A549(Human) Cell Lysate at 30 ug

Primary: Anti-thymidine phosphorylase (SL3809R) at 1/1000 dilution

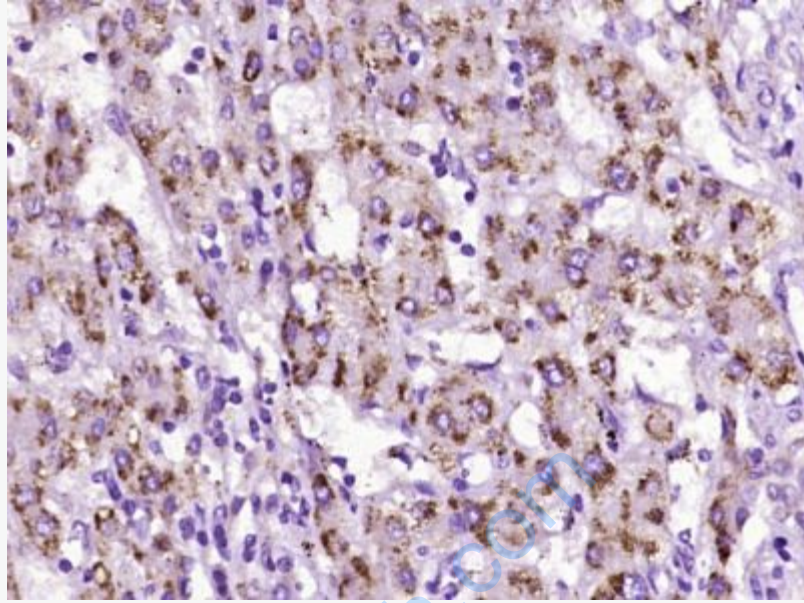
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 50 kD

Observed band size: 50 kD



Paraformaldehyde-fixed, paraffin embedded (human gastric carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (TYPH) Polyclonal Antibody, Unconjugated (SL3809R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human liver carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (TYPH) Polyclonal Antibody, Unconjugated (SL3809R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.