



Rabbit Anti-phospho-Thymidine Kinase 1 (Ser13) antibody

SL19666R

Product Name:	phospho-Thymidine Kinase 1 (Ser13)
Chinese Name:	磷酸化胸苷激酶1抗体
Alias:	Thymidine Kinase 1 (phospho S13); p-Thymidine Kinase 1 (phospho S13); cytosolic; KITH_HUMAN; Thymidine kinase 1; Thymidine kinase 1 soluble; Thymidine kinase 1 soluble isoform; Thymidine kinase; Thymidine kinase cytosolic; TK 1; TK 2; TK1; Tk1a; Tk1b; TK2.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Dog,Pig,Hamster,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	25kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthesised phosphopeptide derived from human Thymidine Kinase 1 around the phosphorylation site of Ser13:PG(pS)PS
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	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.
PubMed:	PubMed

Thymidine Kinase (TK1) is a highly conserved phosphotransferase that is present in most living cells. Thymidine Kinase catalyzes the phosphorylation reaction: deoxythymidine + ATP = deoxythymidine 5'-phosphate + ADP; it is thus involved in the reaction chain to introduce deoxythymidine into the DNA. Thymidine kinase is required for the action of many antiviral drugs, such as azidothymidine (AZT), and is also used to select hybridoma cell lines in the production of monoclonal antibodies. Thymidine Kinase has many clinical applications as it is only present in anticipation of cell division. Because of this, Thymidine Kinase can be used as a proliferation marker in the diagnosis, treatment, and follow-up of malignant diseases, especially hematological malignancies. Thymidine Kinase may be observed as a monomer, dimer, trimer or tetramer.

Subcellular Location:

Cytoplasm.

Post-translational modifications:

Phosphorylated on Ser-13 in mitosis.

Similarity:

Belongs to the thymidine kinase family.

SWISS:

P04183

Gene ID:

7083

Database links:

[Entrez Gene: 7083](#) Human

[Entrez Gene: 21877](#) Mouse

[Entrez Gene: 24834](#) Rat

[Olim: 188300](#) Human

[SwissProt: P04183](#) Human

[SwissProt: P04184](#) Mouse

[SwissProt: P27158](#) Rat

[Unigene: 515122](#) Human

[Unigene: 2661](#) Mouse

Product Detail:

[Unigene: 195325](#) Rat

[Unigene: 216486](#) Rat

Important Note:

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

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