

## Thymidine Kinase (Phospho Ser13) Rabbit pAb

CatalogNo: YP0674

Orthogonal Validated 

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat, Pig (Test by customer)

#### Applications

- WB, IHC, IF, ELISA

#### MW

- 25kD (Observed)

#### Isotype

- IgG

### Recommended Dilution Ratios

WB 1:500-1:2000

IHC 1:100-1:300

ELISA 1:5000

IF 1:50-200

### Storage

#### Storage\*

-15°C to -25°C/1 year (Do not lower than -25°C)

#### Formulation

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### Basic Information

#### Clonality

Polyclonal

### Immunogen Information

#### Immunogen

The antiserum was produced against synthesized peptide derived from human TK around the phosphorylation site of Ser13. AA range: 1-50

**Specificity** Phospho-Thymidine Kinase (S13) Polyclonal Antibody detects endogenous levels of Thymidine Kinase protein only when phosphorylated at S13. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):PGsPS

Target Information

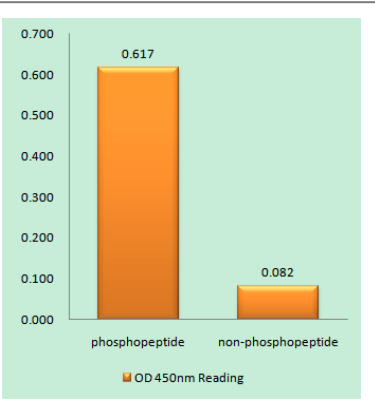
**Gene name** TK1  
**Protein Name** Thymidine kinase cytosolic

Organism	Gene ID	UniProt ID
Human	<a href="#">7083</a> ;	<a href="#">P04183</a> ;
Mouse	<a href="#">21877</a> ;	<a href="#">P04184</a> ;
Rat	<a href="#">24834</a> ;	<a href="#">P27158</a> ;

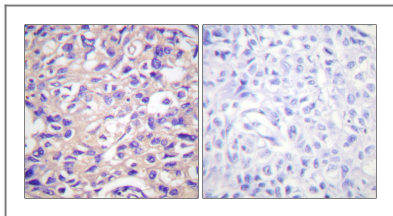
**Cellular Localization** Cytoplasm.  
**Tissue specificity** Epithelium,Lymph,Skin,Uterus,

**Function** Catalytic activity:ATP + thymidine = ADP + thymidine 5'-phosphate.,miscellaneous:Two forms have been identified in animal cells, one in cytosol and one in mitochondria. Activity of the cytosolic enzyme is high in proliferating cells and peaks during the S-phase of the cell cycle; it is very low in resting cells.,PTM:Phosphorylated on Ser-13 in mitosis.,similarity:Belongs to the thymidine kinase family.,

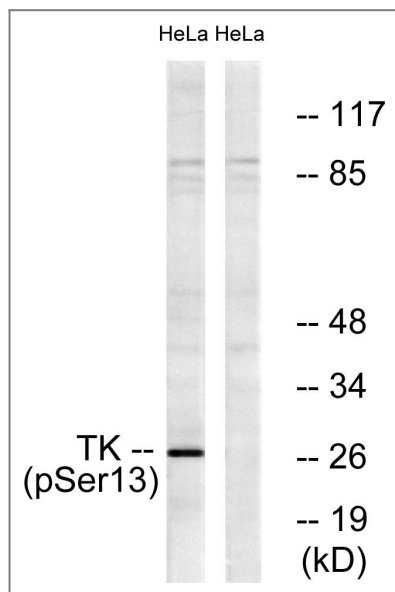
Validation Data



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using TK (Phospho-Ser13) Antibody



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using TK (Phospho-Ser13) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from HeLa cells treated with paclitaxel 1uM 24h, using TK (Phospho-Ser13) Antibody. The lane on the right is blocked with the phospho peptide.

## Contact information

Orders: [order.cn@immunoway.com](mailto:order.cn@immunoway.com)  
 Support: [support.cn@immunoway.com](mailto:support.cn@immunoway.com)  
 Telephone: 400-8787-807(China)  
 Website: <http://www.immunoway.com.cn>  
 Address: 2200 Ringwood Ave San Jose, CA 95131 USA



Please scan the QR code to access additional product information:  
**Thymidine Kinase (Phospho Ser13) Rabbit pAb**

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