

## Thymidine kinase 1 Antibody / TK1 (R31883)

Catalog No.	Formulation	Size
R31883	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

**Bulk quote request**

<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Antigen affinity purified
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit IgG
<b>Purity</b>	Antigen affinity
<b>Buffer</b>	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
<b>UniProt</b>	P04183
<b>Applications</b>	Western Blot : 0.1-0.5ug/ml
<b>Limitations</b>	This TK1 antibody is available for research use only.



Western blot testing of human 1) HeLa and 2) SMMC cell lysate with Thymidine kinase 1 antibody. Expected/observed molecular weight ~25 kDa.

## Description

Thymidine kinase 1, soluble (gene name TK1), is a human thymidine kinase. Thymidine kinase catalyzes the phosphorylation of thymidine to deoxythymidine monophosphate. This gene is mapped to 17q23.2-q25.3. It is estimated that the maximal size of the TK1 gene is 14 kb and its minimal size between 4 and 5 kb. The gene contains many noncoding inserts and numerous Alu sequences. There are two forms of this protein, which 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.

## Application Notes

Optimal dilution of the Thymidine kinase 1 antibody should be determined by the researcher.

## **Immunogen**

Amino acids 2-234 of human TK1 were used as the immunogen for the Thymidine kinase 1 antibody.

## **Storage**

After reconstitution, the Thymidine kinase 1 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.