

**Thymidine Kinase Polyclonal Antibody**  
Catalog # AP72831**Specification****Thymidine Kinase Polyclonal Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P04183</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal

**Thymidine Kinase Polyclonal Antibody - Additional Information****Gene ID** 7083**Other Names**

TK1; Thymidine kinase; cytosolic

**Dilution**

WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/5000. Not yet tested in other applications.

**Format**

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

**Storage Conditions**

-20°C

**Thymidine Kinase Polyclonal Antibody - Protein Information****Name** TK1 ([HGNC:11830](#))**Function**

Cell-cycle-regulated enzyme of importance in nucleotide metabolism (PubMed:<a href="http://www.uniprot.org/citations/9575153" target="\_blank">9575153</a>). Catalyzes the first enzymatic step in the salvage pathway converting thymidine into thymidine monophosphate (PubMed:<a href="http://www.uniprot.org/citations/22385435" target="\_blank">22385435</a>). Transcriptional regulation limits expression to the S phase of the cell cycle and transient expression coincides with the oscillation in the intracellular dTTP concentration (Probable). Also important for the activation of anticancer and antiviral nucleoside analog prodrugs such as 1-b-d-arabinofuranosylcytosine (AraC) and 3c- azido-3c-deoxythymidine (AZT) (PubMed:<a href="http://www.uniprot.org/citations/22385435" target="\_blank">22385435</a>).

**Cellular Location**

Cytoplasm.

## Thymidine Kinase Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Thymidine Kinase Polyclonal Antibody - Images

