



# Thymidine Kinase Polyclonal Antibody

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Catalog No</b>         | BYab-31037                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Isotype</b>            | IgG                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Reactivity</b>         | Human;Mouse;Rat                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Applications</b>       | WB;IHC;IF;ELISA                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Gene Name</b>          | TK1                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Protein Name</b>       | Thymidine kinase cytosolic                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Immunogen</b>          | The antiserum was produced against synthesized peptide derived from human TK. AA range:1-50                                                                                                                                                                                                                                                                                                                            |
| <b>Specificity</b>        | Thymidine Kinase Polyclonal Antibody detects endogenous levels of Thymidine Kinase protein.                                                                                                                                                                                                                                                                                                                            |
| <b>Formulation</b>        | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>             | Polyclonal, Rabbit,IgG                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Purification</b>       | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.                                                                                                                                                                                                                                                                                                  |
| <b>Dilution</b>           | 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.                                                                                                                                                                                                                                                            |
| <b>Concentration</b>      | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Purity</b>             | ≥90%                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Storage Stability</b>  | -20°C/1 year                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Synonyms</b>           | TK1; Thymidine kinase; cytosolic                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Observed Band</b>      | 25kD                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Cell Pathway</b>       | Cytoplasm.                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Tissue Specificity</b> | Epithelium,Lymph,Skin,Uterus,                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Function</b>           | 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., |
| <b>Background</b>         | 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                                                                                                                                                                                                   |

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**matters needing attention**

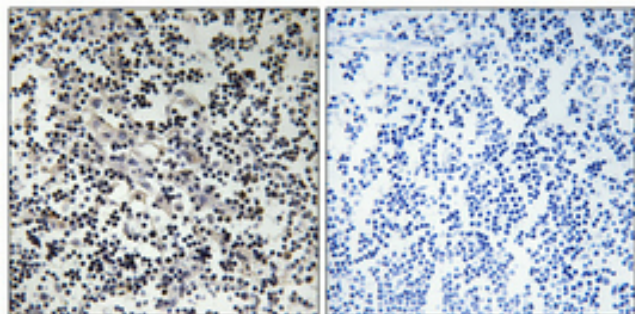
Avoid repeated freezing and thawing!

**Usage suggestions**

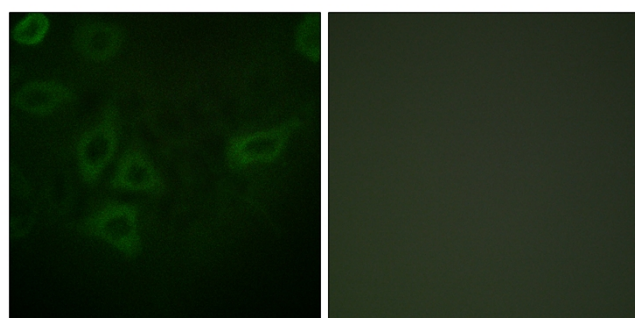
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



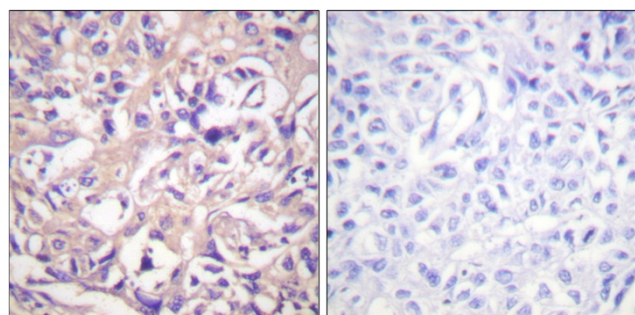
## Products Images



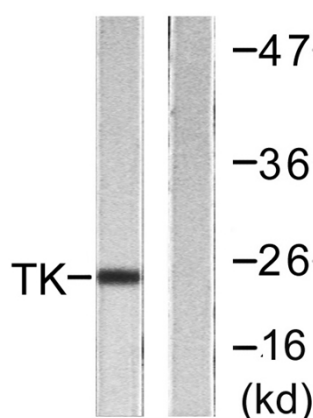
Immunohistochemical analysis of paraffin-embedded Human lung cancer. Antibody was diluted at 1:100(4° overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negative contrl (right) obtained from antibody was pre-absorbed by immunogen peptide.



Immunofluorescence analysis of HepG2 cells, using TK Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using TK Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from COLO205 cells, using TK Antibody. The lane on the right is blocked with the synthesized peptide.

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