

Anti-Thymidine Kinase 1 (pS13) Antibody

Rabbit polyclonal antibody to Thymidine Kinase 1 (pS13) Catalog # AP61147

Product Information

ApplicationWB, IHCPrimary AccessionP04183Other AccessionP04184

Reactivity Human, Mouse, Rat, Bovine

Host Rabbit
Clonality Polyclonal
Calculated MW 25469

Additional Information

Gene ID 7083

Other Names Thymidine kinase cytosolic

Target/Specificity KLH-conjugated synthetic peptide encompassing a sequence within the

N-term region of human Thymidine Kinase 1 (pS13). The exact sequence is

proprietary.

Dilution WB~~WB (1/500 - 1/1000), IHC (1/50 - 1/200) IHC~~WB (1/500 - 1/1000), IHC

(1/50 - 1/200)

Format Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30%

glycerol, and 0.09% (W/V) sodium azide.

Storage Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name TK1 (<u>HGNC:11830</u>)

Function Cell-cycle-regulated enzyme of importance in nucleotide metabolism

(PubMed:9575153). Catalyzes the first enzymatic step in the salvage pathway converting thymidine into thymidine monophosphate (PubMed:22385435). 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)

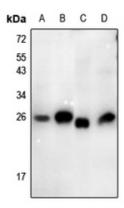
(PubMed: 22385435).

Cellular Location Cytoplasm.

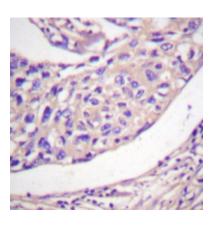
Background

KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human Thymidine Kinase 1 (pS13). The exact sequence is proprietary.

Images



Western blot analysis of Thymidine Kinase 1 (pS13) expression in A375 (A), HCT116 (B), Myla2059 (C), Jurkat (D) whole cell lysates.



Immunohistochemical analysis of Thymidine Kinase 1 (pS13) staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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