Thymidine Kinase (h): 293 Lysate: sc-159024



The Power to Question

BACKGROUND

Thymidine Kinase (TK1) is a highly conserved phosphotransferase that is present in most living cells. Thymidine Kinase catalyzes the phosphorylation reaction: deoxythymidine + ATP = deoxythymidine 5'-phosphate + ADP; it is thus involved in the reaction chain to introduce deoxythymidine into the DNA. Thymidine kinase is required for the action of many antiviral drugs, such as azidothymidine (AZT), and is is also used to select hybridoma cell lines in the production of monoclonal antibodies. Thymidine Kinase has many clinical applications as it is only present in anticipation of cell division. Because of this, Thymidine Kinase can be used as a proliferation marker in the diagnosis, treatment, and follow-up of malignant diseases, especially hematological malignancies. Thymidine Kinase may be observed as a monomer, dimer, trimer or tetramer.

REFERENCES

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STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

CHROMOSOMAL LOCATION

Genetic locus: TK1 (human) mapping to 17q25.3.

PRODUCT

Thymidine Kinase (m): 293 Lysate represents a lysate of mouse Thymidine Kinase transfected 293 cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

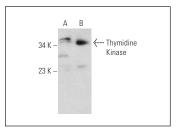
APPLICATIONS

Thymidine Kinase (m): 293 Lysate is suitable as a Western Blotting positive control for mouse reactive Thymidine Kinase antibodies. Recommended use: 10-20 µl per lane.

Control 293 Lysate: sc-110760 is available as a Western Blotting negative control lysate derived from non-transfected 293 cells.

Thymidine Kinase (3B3.E11): sc-56967 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse Thymidine Kinase expression in Thymidine Kinase transfected 293 cells (starting dilution 1:100, dilution range 1:100-1:1,000).

DATA



Thymidine Kinase (383.E11): sc-56967. Western blot analysis of Thymidine Kinase expression in non-transfected: sc-110760 (**A**) and human Thymidine Kinase transfected: sc-159074 (**B**) 293 whole cell Ivsates

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.

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