

Lsk/Ctk (32): sc-136309

BACKGROUND

All members of the Src gene family of tyrosine kinases are characterized by a carboxy terminal domain tyrosine, Y527 in the case of Src p60, which is highly phosphorylated in the inactive form of the enzyme, while phosphorylated to a much lesser extent when the enzyme is active. For instance, a mutant of c-Src, in which Y527 is replaced by phenylalanine, is transforming and displays 5 to 10-fold elevated kinase activity compared to its normal counterpart. Csk has been identified as a Src related tyrosine kinase having both SH2 and SH3 domains and a catalytic domain but lacking sequences amino terminal to the SH3 domain as well as the carboxy-terminal regulatory sequences. Csk phosphorylates Src on Y527 and also down regulates Lyn, Fyn and Lck by tyrosine phosphorylation of carboxy-terminal regulatory sites. A Csk-like protein-tyrosine kinase of mouse origin (Ctk), also designated Ntk, and its human homolog, Lsk, have also been described.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: MATK (human) mapping to 19p13.3; Matk (mouse) mapping to 10 C1.

SOURCE

Lsk/Ctk (32) is a mouse monoclonal antibody raised against amino acids 25-211 of Ctk of mouse origin.

PRODUCT

Each vial contains 200 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Lsk/Ctk (32) is recommended for detection of Lsk of human origin and Ctk of mouse and rat origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)] and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

Suitable for use as control antibody for Lsk siRNA (h): sc-38973, Ctk siRNA (m): sc-38972, Lsk shRNA Plasmid (h): sc-38973-SH, Ctk shRNA Plasmid (m): sc-38972-SH, Lsk shRNA (h) Lentiviral Particles: sc-38973-V and Ctk shRNA (m) Lentiviral Particles: sc-38972-V.

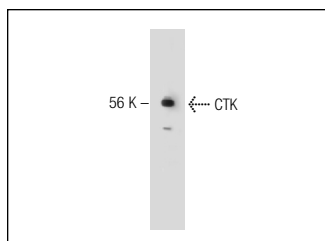
Molecular Weight of Lsk/Ctk: 56 kDa.

Positive Controls: EOC 20 whole cell lysate: sc-364187.

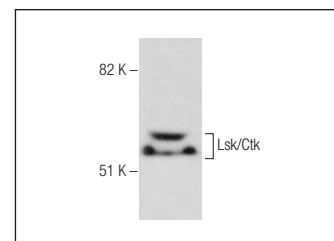
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



CTK (32): sc-136309. Western blot analysis of CTK expression in MDCK whole cell lysate.



Lsk/Ctk (32): sc-136309. Western blot analysis of Lsk/Ctk expression in EOC 20 whole cell lysate.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

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.