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Zuschläge

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Csk (m): 293T Lysate: sc-119481

BACKGROUND

All members of the Src gene family of tyrosine kinases are characterized by a carboxy-terminal domain tyrosine which is highly phosphorylated in the inactive form of the enzyme and phosphorylated to a much lesser extent when the enzyme is active. In the case of Src p60, Y527 is this tyrosine; however, a mutant form 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 an 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 carboxy-terminal regulatory sequences. Csk phosphorylates Src on Y527 and also downregulates Lyn, Fyn and Lck by tyrosine phosphorylation of carboxy-terminal regulatory sites.

REFERENCES

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- Nada, S., Yagi, T., Takeda, H., Tokunaga, T., Nakagawa, H., Ikawa, Y., Okada, M. and Aizawa, S. 1993. Constitutive activation of Src family kinases in mouse embryos that lack Csk. *Cell* 73: 1125-1135.
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- Chow, L.M., Fournel, M., Davidson, D. and Vielle, A. 1993. Negative regulation of T cell receptor signalling by tyrosine protein kinase p50 Csk. *Nature* 365: 156-159.
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CHROMOSOMAL LOCATION

Genetic locus: Csk (mouse) mapping to 9 B.

PRODUCT

Csk (m): 293T Lysate represents a lysate of mouse Csk transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

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.

APPLICATIONS

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

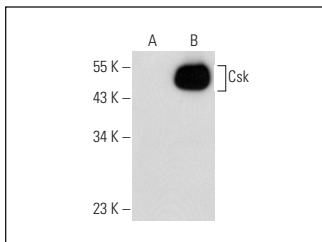
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

Csk (E-3): sc-166560 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse Csk expression in Csk transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

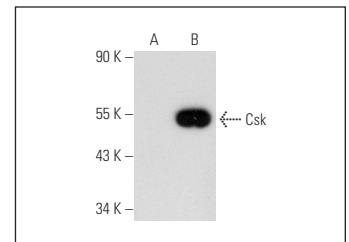
RECOMMENDED SUPPORT REAGENTS

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, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



Csk (E-3): sc-166560. Western blot analysis of Csk expression in non-transfected: sc-117752 (A) and mouse Csk transfected: sc-119481 (B) 293T whole cell lysates.



Csk (B-7): sc-166513. Western blot analysis of Csk expression in non-transfected: sc-117752 (A) and mouse Csk transfected: sc-119481 (B) 293T whole cell lysates.

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.