

Csk (N-terminal region)

Cat. # CM2471

Host Mouse Monoclonal IgG1

Size 100 µl

Background:

C-terminal Src kinase (Csk) is a ubiquitously expressed tyrosine kinase that phosphorylates c-Src at Tyr-530, down-regulating Src kinase activity. *In vitro*, Csk can also phosphorylate other members of the Src family, such as Lck, c-Fgr, Fyn, and Lyn, at their conserved C-terminal tyrosine residue. The structure of Csk resembles c-Src and includes an SH3, SH2, and a catalytic domain. However, Csk lacks the catalytic domain autophosphorylation site, the C-terminal regulatory tyrosine and the N-terminal myristoylation signal of c-Src. Csk is involved in the regulation of integrin signaling during cell attachment and interacts with FAK and paxillin in podosomes. Csk gene knockout leads to neural tube defects and embryonic lethality in mice. In Csk-deficient mouse embryonic fibroblasts, actin stress fiber formation via G-protein signaling is completely abolished, suggesting that Csk may also play a critical role in linking G-protein signals to actin cytoskeletal reorganization.

References

- Nada, S. et al. (1991) Nature 351:69.
Okada, M. et al. (1991) J. Biol. Chem. 266:24249.
Sabe, H. et al. (1992) Mol. Cell. Biol. 12:4706.
Bergman, M. et al. (1995) Mol. Cell. Biol. 15:711.
Lowry, W.E. et al. (2002) Dev. Cell 2:733.

Immunogen:

Clone (M247) was generated from a recombinant human Csk protein that included amino acids residues in the N-terminal region. This region is highly conserved in rat and mouse Csk and has low homology to other kinases.

Applications:

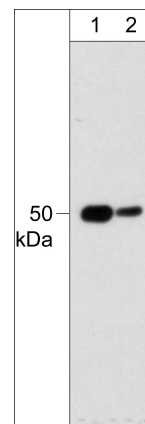
WB 1:1000
ELISA 1:2000

End user should determine optimal dilution for their particular applications and experiments. Western blot membranes were incubated with diluted antibody in 5% non-fat milk, PBS, 0.04% Tween20 for 1 hour at room temperature.

Related Products:

- SM2591 c-Src (N-terminal region) Mouse Monoclonal
SM2611 c-Src (Tyr-530), phospho-specific [Conserved site] Mouse Monoclonal
SP1371 c-Src (Tyr-215), phospho-specific [Conserved site] Rabbit Polyclonal
FM2381 Fyn (N-terminal region) Mouse Monoclonal
LM2541 Lck (N-terminal region) Mouse Monoclonal
YM2501 Yes (N-terminal region) Mouse Monoclonal

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Western blot image of human Jurkat cells. The blot was probed with mouse monoclonal anti-Csk (N-terminal region) at 1:250 (lane 1) and 1:1000 (lane 2).

Buffer and Storage:

Mouse monoclonal antibody purified with protein A chromatography is supplied in 100µl phosphate-buffered saline, 50% glycerol, 1 mg/ml BSA, and 0.05% sodium azide. Store at -20°C. Do not aliquot. Stable for 1 year.

Specificity:

This antibody detects a 50 kDa* band corresponding to Csk in western blots of human Jurkat and mouse macrophage cell lysates.

*All molecular weights (MW) are confirmed by comparison to Bio-Rad Rainbow Markers and to western blot mobilities of known proteins with similar MW.

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