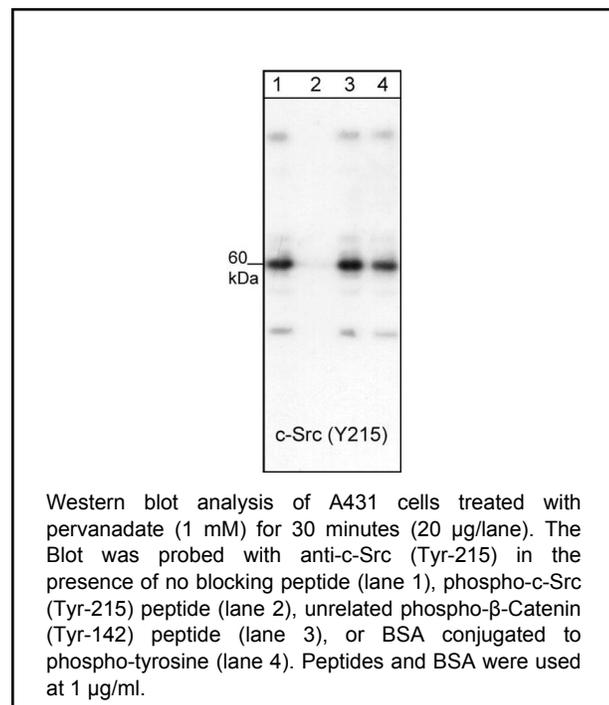


Background

c-Src was the first proto-oncogenic non-receptor tyrosine kinase characterized in human. The Src family is composed of nine members in vertebrates, including c-Src, Yes, Fgr, Yrk, Fyn, Lyn, Hck, Lck, and Blk. Src-family kinases transduce signals that are involved in the control of a variety of cellular processes, including proliferation, differentiation, motility, and adhesion. Src-family kinases contain an N-terminal cell membrane anchor followed by SH3 and SH2 domains. The activity of c-Src is regulated by tyrosine phosphorylation at multiple sites. Tyrosine 418 is autophosphorylated following c-Src activation. Tyrosine 215 in the SH2 domain of c-Src is phosphorylated following growth factor receptor activation. Both Tyr-215 and Tyr-418 phosphorylation increases tyrosine kinase activity, while phosphorylation of Tyr-530 downregulates c-Src kinase activity. Thus, tyrosine phosphorylation of c-Src is critical for regulating its kinase activity.

Background References

Stover, D.R. et al. (1996) *J Biol Chem* 271(21):12481.
Oberfell, A. et al. (2002) *J Cell Biol.* 157(2):265.
Vadlamudi, R.K. et al. (2003) *FEBS Letters* 543:76.



Applications

Blocking 1:1000
ELISA 50 ng/well

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.

Specificity

The peptide is specifically recognized by anti-c-Src (Tyr-215) phospho-specific antibody (SP1371) in ELISA, and has been shown to block the reactivity of SP1371 during Western blot. In addition, the peptide is recommended for use in blocking SP1371 reactivity in immunocytochemistry.

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

Peptide Sequence

Phospho-c-Src (Tyr-215) synthetic peptide corresponds to amino acid residues around tyrosine 215 of human c-Src. This peptide sequence has homology to other Src kinase family members, such as hck, fyn, csk, and yes.

Buffer and Storage

Blocking Peptide is supplied in 50µl phosphate-buffered saline and 0.05% sodium azide. Store at -20°C. Stable for 1 year.

Related Products

SM2591 c-Src (N-terminal region) Mouse Monoclonal
SP1371 c-Src (Tyr-215)[conserved site], phospho-specific Rabbit Polyclonal
SM2611 c-Src (Tyr-530)[conserved site], phospho-specific Mouse Monoclonal
SK6350 c-Src Phospho-Regulation Antibody Sampler Kit

FOR RESEARCH USE ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.