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## Src Antibody Sampler Kit

1 Kit (5 x 20 microliters)

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**For Research Use Only. Not for Use in Diagnostic Procedures.**

Product Includes	Product #	Quantity	Mol. Wt	Isotype/Source
Phospho-Src Family (Tyr416) (D49G4) Rabbit mAb	6943	20 µl	60 kDa	Rabbit IgG
Non-phospho-Src (Tyr530) Antibody	2107	20 µl	60 kDa	Rabbit
Non-phospho-Src (Tyr416) (7G9) Mouse mAb	2102	20 µl	60 kDa	Mouse IgG2b
Phospho-Src (Tyr530) Antibody	2105	20 µl	60 kDa	Rabbit
Src (32G6) Rabbit mAb	2123	20 µl	60 kDa	Rabbit IgG
Anti-rabbit IgG, HRP-linked Antibody	7074	100 µl		Goat
Anti-mouse IgG, HRP-linked Antibody	7076	100 µl		Horse

Please visit [cellsignal.com](http://cellsignal.com) for individual component applications, species cross-reactivity, dilutions, protocols, and additional product information.

### Description

The Src Antibody Sampler kit provides an economical means of evaluating total Src protein levels and its phosphorylation status. The kit contains enough primary and secondary antibodies to perform two Western blot experiments per primary antibody.

### Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

### Background

The Src family of protein tyrosine kinases, which includes Src, Lyn, Fyn, Yes, Lck, Blk, and Hck, are important in the regulation of growth and differentiation of eukaryotic cells (1). Src activity is regulated by tyrosine phosphorylation at two sites, but with opposing effects. While phosphorylation at Tyr416 in the activation loop of the kinase domain upregulates enzyme activity, phosphorylation at Tyr530 in the carboxy-terminal tail by Csk renders the enzyme less active (2).

Lyn is a member of the Src family that is predominantly expressed in hematopoietic cells (3). Lyn participates in signaling from multiple cell surface receptors such as the B cell Ag receptor (BCR) and CD40 (4). Lck is essential for T-lymphocyte activation and differentiation (5,6). The activity of Lck is regulated by protein kinases and phosphatases. Phosphorylation of the C-terminal tyrosine 505 serves to downregulate Lck catalytic activity, while phosphorylation at tyrosine 394 leads to an increase in Lck activity (7).

### Background References

1. Thomas, S.M. and Brugge, J.S. (1997) *Annu Rev Cell Dev Biol* 13, 513-609.
2. Hunter, T. (1987) *Cell* 49, 1-4.
3. Yamanashi, Y. et al. (1989) *Proc Natl Acad Sci U S A* 86, 6538-42.
4. Yamanashi, Y. et al. (1991) *Science* 251, 192-4.
5. Molina, T.J. et al. (1992) *Nature* 357, 161-4.
6. Straus, D.B. and Weiss, A. (1992) *Cell* 70, 585-93.
7. Chow, L.M. et al. (1993) *Nature* 365, 156-60.

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