

Store at -20C
#9320

Src Family Antibody Sampler Kit



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1 Kit (6 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 |
|--------------------------------------|-----------|----------|---------|----------------|
| Src (32G6) Rabbit mAb | 2123 | 20 µl | 60 kDa | Rabbit IgG |
| Csk (C74C1) Rabbit mAb | 4980 | 20 µl | 50 kDa | Rabbit IgG |
| Fyn Antibody | 4023 | 20 µl | 59 kDa | Rabbit |
| Lck (D88) XP [®] Rabbit mAb | 2984 | 20 µl | 56 kDa | Rabbit IgG |
| Lyn (C13F9) Rabbit mAb | 2796 | 20 µl | 56 kDa | Rabbit IgG |
| Yes Antibody | 3201 | 20 µl | 60 kDa | Rabbit |
| Anti-rabbit IgG, HRP-linked Antibody | 7074 | 100 µl | | Goat |

Please visit cellsignal.com for individual component applications, species cross-reactivity, dilutions, protocols, and additional product information.

Description

The Src Family Antibody Sampler Kit provides an economical means of evaluating total levels of Src family member proteins. The kit contains enough primary and secondary antibody to perform two western blots with each 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).

The kinase Fyn plays a role in T-cell receptor signaling and also helps in memory formation and adhesion mediated signaling (3,4). Lymphocyte specific kinase Lck is essential in the differentiation and activation of T-cells (3). Hematopoietic Lyn kinase, also phosphorylated by Csk, is involved in the regulation of B-cell function, migration and development (5). The ubiquitously expressed kinase Yes acts downstream of several different cell surface receptors, including G-protein-coupled receptors, and is involved in the regulation of angiogenesis, the cell cycle and cell adhesion (6,7).

Background References

1. Thomas, S.M. and Brugge, J.S. (1997) *Annu Rev Cell Dev Biol* 13, 513-609.
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3. Palacios, E.H. and Weiss, A. (2004) *Oncogene* 23, 7990-8000.
4. Isosaka, T. et al. (2008) *Eur. J. Neurosci.* 28, 973-981.
5. Seo, S. et al. (2001) *J. Immunol.* 166, 3710-3716.
6. Summy, J.M. et al. (2003) *J. Cell Sci.* 116, 2585-2598.
7. Werdich, X.Q. and Penn, J.S. (2005) *Angiogenesis* 8, 315-326.

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