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### Non-Receptor Tyrosine kinases selective antibodies

#### Anti-Src antibodies (Src-101AP, Src-112AP)

The Src family of protein tyrosine kinases are important regulators of cell growth and differentiation of eukaryotic cells. The src protein has a SH3, SH2 and a kinase domain. SH2 domain containing proteins play a key role in the process of intracellular transmission of signalling events initiated at the cell surface. As a pre-requisite in the fulfillment of this function, these proteins bind to a variety of phospho-tyrosine (pY) containing target molecules. The SH3 domainThe Src family consist of several protein kinases including Src, Lyn, Fyn, Yes, Lck, Blk, Hck, etc. (1). The src activity is modulated in opposite directions by phosphorylation of tyrosine residues 516 and 527. The phosphorylation of Tyr-416 resulted in activation of src kinase activity, while a negative regulation of the cellular Src tyrosine kinase (pp60c-src) is mediated through the phosphorylation of a C-terminal tyrosine residue, Tyr-527 that is located 11 residues C-terminal from the end of the kinase domain (2, 3). Current models predict that inhibition of c-Src kinase activity results from an interaction of phosphorylated Tyr-527 with the amino terminal SH2 domain. One of the substrate for c-src kinase is c-fgr, a protooncogene product.

The c-src protein is a approximately 57kDa protein. The Anti-src-selective antibody was generated against 2 peptides (DSGGFYITSR TQF) and (LIEDNEYT ARQGAC) from the tyrosine kinase domain that is unique to c-src protein. The phospho-specific affinity purified mono-epitope specific antibodies were selected on multiple column of dephospho and phospho-peptide immobilized antigen chromatography. The affinity purified antibodies strongly label a 57kDa c-Src protein in our western blot positive control samples. *FabGennix Inc.* will also conjugate antibodies with fluorescent probes upon request at extra charge. *FabGennix Inc.* also provides antibodies against proteins that are involved in ACK1 signalling including ACK2, phosphor-ACK1, Herceptins (Erbs), bone morphogenetic proteins and others. *FabGennix Inc.* employs cyclic peptide methodology for generating antibodies, which results in higher titer and specificity (6). *FabGennix, Inc.*, will also provide Western blot positive controls for phospho and non-phospho src proteins in ready-to-use buffer for easy identification of respective proteins. Limited quantities of phospho and dephospho peptides are also available. Please enquire for their availability before ordering.

Catalog #	Host Species	Nature	Cross reactivity	Quantity	Volume/Price
Src-101AP	Rabbit	Affinity purified c-Src Antibody	R, M, H,others	100 µg	200ul/235
Psrc-240AP	Rabbit	Affinity purified c-Src Antibody	R, M, H,others	100 µg	200ul/235
P-Psrc100	Rabbit	Antigenic peptide for Src-101AP	n/a	250 ug	165
P-Psrc-110	n/a	Antigenic peptide for Src-112AP	n/a	250 ug	165
PC-Src	n/a	Western blot positive control for c-src	n/a	5 appl.	185

R = rat; M = mouse; H = human; C = chicken; monk = monkey ; \* not all variants are labeled equally

**Immunogen:** Synthetic peptide unique to src protein. Peptide for Psrc-140AP: DSGGFYITSR TQF; Peptide for Psrc-240AP: LIEDNEYT ARQGAC.

**Concentration:** Psrc-140AP and Psrc-240AP IgG concentration 0.65-1.25 mg/ml.

**Applications:** Antibodies Psrc-140AP and Psrc-240AP are ideal for WB, IMM and IHC applications have not been tested. The dilutions for these antibodies are for reference only, investigators are expected to determine the optimal conditions for specific assay. WB; 1:500; IMM & i.p pull-down assays:>n.d

**Reactivity:** This antibody detects a single 57kDa phospho src protein in PC-Psrc samples. These antibodies do not reacts to non-phospho src kDa protein in cell line expressing src protein.

**Protocols:** Standard protocol for various applications (WB, IMM and IHC) of this antibody is provided with the product specification sheet, however, *FabGennix Int. Inc.*

**Form/Storage:** The antiserum is supplied in antibody stabilization buffer with 0.02% sodium azide. For long-term storage of antibodies, store at -20°C. *FabGennix Int. Inc.* does not recommend storage of very dilute antibody solutions unless they are prepared in specially formulated multi use antibody dilution buffer (Cat # DilUbuffer). Working solutions of antibodies in DilUbuffer should be filtered through 0.45 µm filter after every use for long-term storage.

#### 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. Cobb BS, Parsons JT. Regulation of the cellular src protein tyrosine kinase: interactions of the carboxyl terminal sequences residing between the kinase domain and tyrosine-527. *Oncogene.* 1993 Nov;8(11):2897-903.

\*For users who may require large amounts of Src-101AP and Src-112AP, please enquire about bulk material discounts.  
This Product is for Research Use Only and is NOT intended for use in humans or clinical diagnosis.

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