

# Phospho-Src (Tyr527) Antibody

✓ 100 µl  
(10 Western mini-blots)

**Orders** ■ 877-616-CELL (2355)  
orders@cellsignal.com  
**Support** ■ 877-678-TECH (8324)  
info@cellsignal.com  
**Web** ■ www.cellsignal.com

rev. 12/17/08

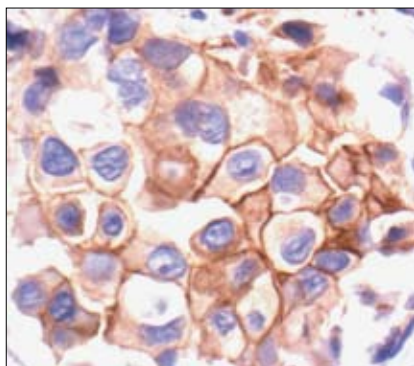
This product is for *in vitro* research use only and is not intended for use in humans or animals. This product is not intended for use as a therapeutic or in diagnostic procedures.

| Applications           | Species Cross-Reactivity* | Molecular Wt. | Source   |
|------------------------|---------------------------|---------------|----------|
| W, IHC-P<br>Endogenous | H, M, R, (C)              | 60 kDa        | Rabbit** |

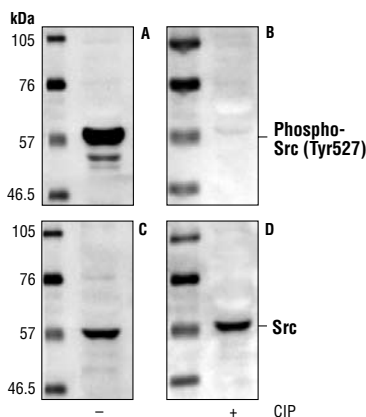
**Background:** The Src family of protein tyrosine kinases (including Src, Lyn, Fyn, Yes, Lck, Blk, Hck, etc.) are important in the regulation of growth and differentiation of eukaryotic cells (1). Src activity is regulated by tyrosine phosphorylation at two sites with opposing effects. Phosphorylation of Tyr416 in the activation loop of the kinase domain upregulates enzyme activity. Phosphorylation of Tyr527 in the carboxy-terminal tail by Csk renders the enzyme less active (2).

**Specificity/Sensitivity:** Phospho-Src (Tyr527) Antibody detects endogenous levels of Src only when phosphorylated at Tyr527. The antibody may cross-react with other Src family members such as Yes, Fyn, Fgr and Yrk when phosphorylated at the equivalent sites.

**Source/Purification:** Polyclonal antibodies are produced by immunizing animals with a synthetic phospho-peptide (KLH-coupled) corresponding to residues surrounding Tyr527 of human Src. Antibodies are purified by protein A and peptide affinity chromatography.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma, showing membrane and cytoplasmic localization using Phospho-Src (Tyr527) Antibody.



Western blot analysis of extracts from NIH/3T3 cells, using Phospho-Src (Tyr527) Antibody (A,B) or v-Src antibody (C,D). The phospho-specificity of the antibody was confirmed by treating the membrane with calf intestinal alkaline phosphatase (CIP) (B,D) after Western transfer.

**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.

Entrez-Gene ID # 6714  
Swiss-Prot Acc. # P12931

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

\*Species cross-reactivity is determined by Western blot.

\*\*Anti-rabbit secondary antibodies must be used to detect this antibody.

**Recommended Antibody Dilutions:**

Western blotting 1:1000  
Immunohistochemistry (Paraffin) 1:25

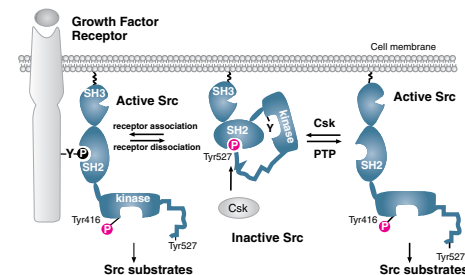
IHC protocol: Unmasking buffer/Antibody diluent  
Citrate/TBST-5%NGST

For application specific protocols please see the web page for this product at [www.cellsignal.com](http://www.cellsignal.com).

**Companion Products:**

- Phospho-Src Family (Tyr416) Antibody #2101
- Non-phospho-Src (Tyr416) (7G9) Mouse mAb #2102
- Src (36D10) Rabbit mAb #2109
- Non-phospho-Src (Tyr527) Antibody #2107
- Anti-rabbit IgG, HRP-linked Antibody #7074
- Prestained Protein Marker, Broad Range (Premixed Format) #7720
- Biotinylated Protein Ladder Detection Pack #7727
- 20X LumiGLO® Reagent and 20X Peroxide #7003

Please visit [www.cellsignal.com](http://www.cellsignal.com) for a complete listing of recommended companion products.



Src Signaling Pathway

**IMPORTANT: For Western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.**

**Applications Key:** W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide  
**Species Cross-Reactivity Key:** H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebra fish B—bovine  
Dg—dog Pg—pig Sc—S. cerevisiae All—all species expected Species enclosed in parentheses are predicted to react based on 100% sequence homology.