#12432 Store at -20°C

Phospho-Src (Ser17) (D7F2Q) Rabbit mAb

☑ 100 µl
(10 western blots)

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

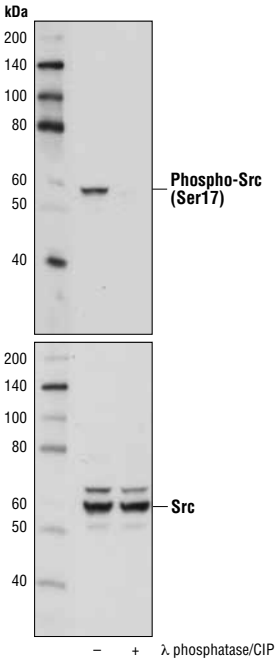
Applications	Species Cross-Reactivity*	Molecular Wt.	Isotype
W, IP Endogenous	H, M, R, Mk	60 kDa	Rabbit IgG**

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 Tyr527 in the carboxy-terminal tail by Csk renders the enzyme less active (2).

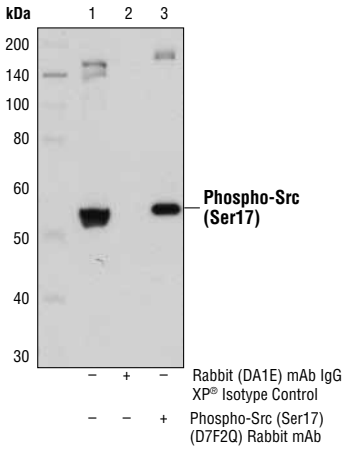
Protein kinase A (PKA)-dependent phosphorylation of Src at Ser17 is thought to influence multiple signaling networks (3-5). This site has also been identified in a phospho-proteomic screen for substrates of mTOR (6).

Specificity/Sensitivity: Phospho-Src (Ser17) (D7F2Q) Rabbit mAb recognizes endogenous levels of Src protein only when phosphorylated at Ser17.

Source/Purification: Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser17 of human Src protein.



Western blot analysis of extracts from 293T cells, untreated (-) or treated (+) with λ phosphatase and calf intestinal phosphatase (CIP), using Phospho-Src (Ser17) (D7F2Q) Rabbit mAb (upper) or Src (32G6) Rabbit mAb #2123 (lower).



◀ *Immunoprecipitation of phospho-Src (Ser17) from 293T cell extracts using Rabbit (DA1E) mAb IgG XP® Isotype Control #3900 (lane 2) or Phospho-Src (Ser17) (D7F2Q) Rabbit mAb (lane 3). Lane 1 is 10% input. Western blot analysis was performed using Phospho-Src (Ser17) (D7F2Q) Rabbit mAb.*

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.*

***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
Immunoprecipitation	1:50

For product specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended complementary products.

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) Schmitt, J.M. and Stork, P.J. (2002) *Mol Cell* 9, 85-94.

(4) Abrahamsen, H. et al. (2003) *J Biol Chem* 278, 17170-7.

(5) Obara, Y. et al. (2004) *J Cell Sci* 117, 6085-94.

(6) Hsu, P.P. et al. (2011) *Science* 332, 1317-22.

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**—zebrafish **B**—bovine **Dg**—dog **Pg**—pig **Sc**—S. cerevisiae **Ce**—C. elegans **Hr**—horse **All**—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.