

#5473 Store at -20°C

Phospho-Src (Ser17) Antibody



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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB	H R Mk	Endogenous	60	Rabbit	#P12931	6714

Product Usage Information	Application Western Blotting	Dilution 1:1000
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.	
Specificity / Sensitivity	Phospho-Src (Ser17) Antibody recognizes endogenous levels of Src protein only when phosphorylated at Ser17.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ser17 of human Src protein. Antibodies are purified by protein A and peptide affinity chromatography.	
Background	<p>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).</p> <p>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).</p>	
Background References	<ol style="list-style-type: none"> 1. Thomas, S.M. and Brugge, J.S. (1997) <i>Annu Rev Cell Dev Biol</i> 13, 513-609. 2. Hunter, T. (1987) <i>Cell</i> 49, 1-4. 3. Schmitt, J.M. and Stork, P.J. (2002) <i>Mol Cell</i> 9, 85-94. 4. Abrahamsen, H. et al. (2003) <i>J Biol Chem</i> 278, 17170-7. 5. Obara, Y. et al. (2004) <i>J Cell Sci</i> 117, 6085-94. 6. Hsu, P.P. et al. (2011) <i>Science</i> 332, 1317-22. 	

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	WB: Western Blotting
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus 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 GP: Guinea Pig Rab: rabbit All: all species expected
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