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Store at -20C  
#5473

## Phospho-Src (Ser17) Antibody

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H M 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

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).

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).

### 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.

### 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

**W:** Western Blotting

### Cross-Reactivity Key

**H:** Human **M:** Mouse **R:** Rat **Mk:** Monkey

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