Phospho-Src (Ser17) (D7F2Q) Rabbit mAb

Applications | Species Cross-Reactivity* | Molecular Wt. | Isotype | Entrez-Gene ID
---|---|---|---|---
W, IP Endogenous | H, M, R, Mk | 60 kDa | Rabbit IgG** | #6714

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.

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.

Recommended Antibody Dilutions:
- Western blotting: 1:1000
- Immunoprecipitation: 1:50

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Swiss-Prot Acc. #P12931

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Background References: