

Product name:	Phospho-Src-S17
Cat number:	MAB-94246
Conjugate:	Unconjugated
Size:	100 ug
Clone:	D7F2Q
Concentration:	1mg/ml
Host:	Rb
Isotype:	IgG
Reactivity:	HU
Applications:	Western blotting 1:1000 Immunoprecipitation 1:50
Molecular Weight:	60 kDa
Purification:	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser17 of human Src protein.
Form:	liquid
Buffer:	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.
Storage:	Store at -20°C. Avoid freeze / thaw cycles.
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 phosphoproteomic screen for substrates of mTOR (6). Phospho-Src (Ser17) (D7F2Q) Rabbit mAb recognizes endogenous levels of Src protein only when phosphorylated at Ser17.