Phospho-Src Family (Tyr416) Antibody



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Applications: W	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 60	Source/Isotype: Rabbit	UniProt ID: #P07947, #P07948, #P06239, #P08631, #P12931, #P06241	Entrez-Gene Id: 7525, 4067, 3932 3055, 6714, 2534
Product Usage Information		Application Western Blotting		Dilution 1:1000		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Phospho-Src Family (Tyr416) Antibody detects endogenous levels of Src only when phosphorylated at tyrosine 416. The antibody may cross-react with other Src family members (Lyn, Fyn, Lck, Yes and Hck) when phosphorylated at equivalent sites. It does not cross-react with Src phosphorylated at tyrosine 527. It may cross react with phosphorylated RTKs.				
Species prediction to the species prediction		Chicken, Xenopus				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr419 of human Src. 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).				
		participates in signali and CD40 (4).Lck is es	ng from multiple ce sential for T-lympho Tyr505 downregula	ll surface receptors su ocyte activation and di	sed in hematopoietic co ch as the B cell antiger fferentiation (5,6). Phos shosphorylation at Tyr3	receptor (BCR) sphorylation of
Background References		 Thomas, S.M. and Brugge, J.S. (1997) Annu Rev Cell Dev Biol 13, 513-609. Hunter, T. (1987) Cell 49, 1-4. Yamanashi, Y. et al. (1989) Proc Natl Acad Sci U S A 86, 6538-42. Yamanashi, Y. et al. (1991) Science 251, 192-4. Molina, T.J. et al. (1992) Nature 357, 161-4. Straus, D.B. and Weiss, A. (1992) Cell 70, 585-93. Chow, L.M. et al. (1993) Nature 365, 156-60. 				
Species React	ivity	Species reactivity is d	etermined by testin	g in at least one appro	ved application (e.g., w	vestern blot).
Western Blot Buffer		IMPORTANT: Former to the late is such as a such as a such all late is a such as a such				

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

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