4/10/24, 10:39 AM Revision 5

Phospho-Src Antibody 1012#		-	3 Trasi	Orders: Support: Web:	ST7-616-CELL (2355) orders@cellsignal.com 877-678-TECH (8324) info@cellsignal.com cellsignal.com	
Applications: Rea	ctivity: Sens	itivity: MW (kDa): genous 60	Source: Rabbit	UniProt ID: #P07947, #P07948, #P06239, #P08631, #P12931, #P06241	Entrez-Gene Id: 7525, 4067, 3932, 3055, 6714, 2534	
Product Usage Information	Application Western Blo			Dilution 1:1000		
Storage		0 mM sodium HEPES (pH aliquot the antibody.	7.5), 150 mM NaCl, 10	00 μg/ml BSA and 50% g	lycerol. Store at –	
Specificity / Sensitivity	Phospho-Src tyrosine 416. when phosph	Family (Tyr416) Antibody The antibody may cross-re	yr416) Antibody detects endogenous levels of Src only when phosphorylated at ody may cross-react with other Src family members (Lyn, Fyn, Lck, Yes and Hck) at equivalent sites. It does not cross-react with Src phosphorylated at tyrosine 527. It			
Species predicted to react based on 100% sequence homology	Chicken, Xen	opus				
Source / Purification	to residues su	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	important in t tyrosine phos activation loo terminal tail b Lyn is a mem participates in CD40 (4). Lck is essent	y of protein tyrosine kinase he regulation of growth an phorylation at two sites, bu p of the kinase domain up y Csk renders the enzyme ber of the Src family that is n signaling from multiple ce ial for T-lymphocyte actival D5 downregulates Lck activ	d differentiation of euk ut with opposing effect regulates enzyme activ eless active (2). s predominantly expres ell surface receptors su tion and differentiation	aryotic cells (1). Src activ s. While phosphorylation vity, phosphorylation at T ssed in hematopoietic ce ich as the B cell antigen (5,6). Phosphorylation of	vity is regulated by at Tyr416 in the yr527 in the carboxy- lls (3). Lyn receptor (BCR) and f the carboxy-	
Background Reference	2. Hunter, T. (1987) C 3. Yamanashi, Y. et al 4. Yamanashi, Y. et al 5. Molina, T.J. et al. (1 6. Straus, D.B. and W		Brugge, J.S. (1997) Annu Rev Cell Dev Biol 13, 513-609. ell 49, 1-4. (1989) Proc Natl Acad Sci U S A 86, 6538-42. (1991) Science 251, 192-4. 992) Nature 357, 161-4. eiss, A. (1992) Cell 70, 585-93. 993) Nature 365, 156-60.			
Species Reactivity	Species reacti	vity is determined by testir	rmined by testing in at least one approved application (e.g., western blot).		estern blot).	
Western Blot Buffer			n blots, incubate membrane with diluted primary antibody in 5% w/v BSA, vith gentle shaking, overnight.		% w/v BSA, 1X TBS,	
Applications Key Cross-Reactivity Key	WB: Western	Blotting				

4/10/24, 10:39 AM	 Phospho-Src Family (Tyr416) Antibody (#2101) Datasheet Without Images Cell Signaling Technology 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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