Phospho-CTDSPL2 (Ser104) Antibody					Cell Signaling		
Stor					Orders:	877-616-CELL (2355) orders@cellsignal.com	
4					Support:	877-678-TECH (8324)	
<i>‡</i> 5294					Web:	info@cellsignal.com cellsignal.com	
				3 Trask	Lane   Danvers   Mas	ssachusetts   01923   USA	
For Research Use Onl Applications:	Reactivity:	Sensitivity:	edures. MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:	
WB, IP	H Mk	Endogenous	61	Rabbit	#Q05D32	51496	
Product Usage	ļ	Application			Dilution		
Information	V	Western Blotting			1:1000	1:1000	
	I	Immunoprecipitation 1:50					
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu g/ml$ BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity / Sensitivity		Phospho-CTDSPL2 (Ser104) Antibody detects endogenous levels of CTDSPL2 only when phosphorylated at Ser104.					
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser104 of human CTDSPL2 protein. Antibodies are purified by protein A and peptide affinity chromatography.					
Background		CTD small phosphatase-like protein 2 (CTDSPL2, HSPC129) is a putative RNA-polymerase II carboxy- terminal domain (CTD) phosphatase (1) that belongs to a small subfamily of CTD phosphatases (2). The CTD of RNA polymerase II contains multiple Y-S-P-T-S-P-S repeats that are phosphorylated during the transcription cycle (3,4). In general, CTD phosphatases regulate the reversible CTD phosphorylation state of RNA-polymerase II at several stages of RNA synthesis and during post-transcriptional modification (4-6). CTDSPL2 has several structural and functional similarities to other CTD phosphatases, including FCP1, SCP1, DULLARD, and UBLCP1 (1,2). Phosphorylation of CTDSPL2 at Ser104 was identified at Cell Signaling Technology (CST) using PhosphoScan <sup>®</sup> , CST's LC-MS/MS platform for phosphorylation site discovery (7). The site was independently found in select carcinoma cell lines and in tumors (8).					
Background References		<ol> <li>Qian, H. et al. (2007) <i>Mol Cell Biochem</i> 303, 183-8.</li> <li>Kim, Y. et al. (2007) <i>Proc Natl Acad Sci USA</i> 104, 6596-601.</li> <li>Corden, J.L. et al. (1985) <i>Proc Natl Acad Sci USA</i> 82, 7934-8.</li> <li>Ahn, S.H. et al. (2004) <i>Mol Cell</i> 13, 67-76.</li> <li>Dahmus, M.E. (1996) <i>J Biol Chem</i> 271, 19009-12.</li> <li>Goodrich, J.A. and Tjian, R. (1994) <i>Cell</i> 77, 145-56.</li> <li>Rush, J. et al. (2005) <i>Nat Biotechnol</i> 23, 94-101.</li> <li>Dephoure, N. et al. (2008) <i>Proc Natl Acad Sci USA</i> 105, 10762-7.</li> </ol>					
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	WB: Western Blotting IP: Immunoprecipitation					
Cross-Reactivity Key H: human M: mouse R: rat			B: bovine Dg: dog	t <b>Hm:</b> hamster <b>Mk:</b> monkey <b>Vir:</b> virus <b>Mi:</b> mink <b>C:</b> chicken <b>Dm:</b> D. melanogaster <b>B:</b> bovine <b>Dg:</b> dog <b>Pg:</b> pig <b>Sc:</b> S. cerevisiae <b>Ce:</b> C. elegans <b>Hr:</b> horse bit <b>All:</b> all species expected			
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Limited Uses							

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