Phospho-CTDSPL2 (Ser104) Antibody



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Applications: W, IP	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 61	Source/Isotype: Rabbit	UniProt ID: #Q05D32	Entrez-Gene Id: 51496
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50	
Storage		Supplied in 10 mM sod 20°C. Do not aliquot th		s), 150 mM NaCl, 100 μg,	/ml BSA and 50% gl	ycerol. Store at –
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®, 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		1. Qian, H. et al. (2007) <i>Mol Cell Biochem</i> 303, 183-8. 2. Kim, Y. et al. (2007) <i>Proc Natl Acad Sci USA</i> 104, 6596-601. 3. Corden, J.L. et al. (1985) <i>Proc Natl Acad Sci USA</i> 82, 7934-8. 4. Ahn, S.H. et al. (2004) <i>Mol Cell</i> 13, 67-76. 5. Dahmus, M.E. (1996) <i>J Biol Chem</i> 271, 19009-12. 6. Goodrich, J.A. and Tjian, R. (1994) <i>Cell</i> 77, 145-56. 7. Rush, J. et al. (2005) <i>Nat Biotechnol</i> 23, 94-101. 8. Dephoure, N. et al. (2008) <i>Proc Natl Acad Sci USA</i> 105, 10762-7.				
Species Reactivity	v.	Species reactivity is de	termined by testin	g in at least one approve	ed application (e.g.	western blot)

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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 **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human Mk: Monkey

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