

#6932 Store at -20C

CTDSPL2 (D79G11) Rabbit mAb


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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB	H R Mk	Endogenous	62	Rabbit IgG	#Q05D32	51496

Product Usage Information	Application Western Blotting	Dilution 1:1000
Storage	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. Store at -20°C. Do not aliquot the antibody.	
Specificity / Sensitivity	CTDSPL2 (D79G11) Rabbit mAb recognizes endogenous levels of total CTDSPL2 protein.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human CTDSPL2 protein.	
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).	
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.	

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	WB: Western Blotting
Cross-Reactivity Key	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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