

#6932 Store at -20C

CTDSPL2 (D79G11) Rabbit mAb



Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	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) *Mol Cell Biochem* 303, 183-8.
2. Kim, Y. et al. (2007) *Proc Natl Acad Sci USA* 104, 6596-601.
3. Corden, J.L. et al. (1985) *Proc Natl Acad Sci USA* 82, 7934-8.
4. Ahn, S.H. et al. (2004) *Mol Cell* 13, 67-76.
5. Dahmus, M.E. (1996) *J Biol Chem* 271, 19009-12.
6. Goodrich, J.A. and Tjian, R. (1994) *Cell* 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

W: Western Blotting

Cross-Reactivity Key

H: Human **R:** Rat **Mk:** Monkey

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