Store at

ន្ត SSU72 (D3I2D) Rabbit mAb





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Applications: W, IP, eCLIP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 27	Source/Isotype: Rabbit IgG	UniProt ID: #Q9NP77	Entrez-Gene Id: 29101
Product Usage Information	2	Application Western Blotting Immunoprecipitation eCLIP For more information a	about the RBP-eCL	IP service please visit Ec	Dilution 1:1000 1:50 1:200 lipsebio.	
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/Sen	sitivity	SSU72 (D3I2D) Rabbit mAb recognizes endogenous levels of total SSU72 protein.				
Species predic based on 100% homology		Hamster, Chicken, Bovine, Dog, Pig, Guinea Pig				
Source / Purifi	cation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro93 of human SSU72 protein.				
Background		SSU72 is a protein phosphatase originally identified through its interaction with TFIIB as a factor required for transcription and RNA processing (1,2). While SSU72 has been known as a phosphatase of the RNA polymerase II carboxy-terminal domain at Ser5 of the heptapeptide repeat, additional studies suggest a role for SSU72 as a phosphatase for Ser7 of the heptapeptide repeat as well (3-9). The activities of SSU72 are thought to play a critical role in coupling transcription with pre-mRNA 3' end processing (10-12). SSU72 is required for gene looping that connects the gene promoter with the terminator region, leading to proper initiation of transcription and enforcement of transcriptional directionality on promoters that may other wise act as bidirectional promoters (13-14). In addition to a role in transcription, SSU72 acts as a cohesin binding protein that regulates cohesion between sister chromatid arms during mitosis or meiosis (15).				
Background R	eferences	 Sun, Z.W. and Hampsey, M. (1996) <i>Mol Cell Biol</i> 16, 1557-66. Pappas, D.L. and Hampsey, M. (2000) <i>Mol Cell Biol</i> 20, 8343-51. Ganem, C. et al. (2003) <i>EMBO J</i> 22, 1588-98. Krishnamurthy, S. et al. (2004) <i>Mol Cell</i> 14, 387-94. Hausmann, S. et al. (2005) <i>J Biol Chem</i> 280, 37681-8. Reyes-Reyes, M. and Hampsey, M. (2007) <i>Mol Cell Biol</i> 27, 926-36. Werner-Allen, J.W. et al. (2011) <i>J Biol Chem</i> 286, 5717-26. Zhang, D.W. et al. (2012) <i>J Biol Chem</i> 287, 8541-51. Bataille, A.R. et al. (2012) <i>Mol Cell</i> 45, 158-70. He, X. et al. (2003) <i>Genes Dev</i> 17, 1030-42. Steinmetz, E.J. and Brow, D.A. (2003) <i>Mol Cell Biol</i> 23, 6339-49. Xiang, K. et al. (2010) <i>Nature</i> 467, 729-33. Wang, Y. et al. (2010) <i>Curr Biol</i> 20, 548-53. Tan-Wong, S.M. et al. (2012) <i>Science</i> 338, 671-5. Kim, H.S. et al. (2010) <i>EMBO J</i> 29, 3544-57. 				
Species Reacti	vity	Species reactivity is def	termined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot E	Buffer			membrane with diluted with gentle shaking, ove		n 5% w/v nonfat
Applications K	ey	W: Western Blotting IP	: Immunoprecipita	ition eCLIP: eCLIP		
Cross-Reactivi	ty Key	H: Human M: Mouse R	: Rat Mk: Monkey			

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