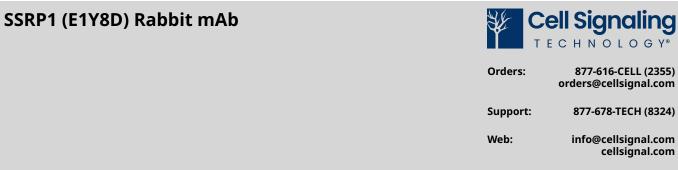
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471



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

Applications: W, ChIP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 81	Source/Isotype: Rabbit IgG	UniProt ID: #Q08945	Entrez-Gene Id: 6749
Product Usage Information		For optimal ChIP results, use 10 μl of antibody and 10 μg of chromatin (approximately 4 x 10 ⁶ cells) per IP. This antibody has been validated using SimpleChIP [®] Enzymatic Chromatin IP Kits.				
		Application Western Blotting Chromatin IP			Dilution 1:1000 1:50	
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		SSRP1 (E1Y8D) Rabbit mAb recognizes endogenous levels of total SSRP1 protein. This antibody also cross-reacts with protein of unknown origin at 140 kDa in some cell lines.				
Species predicted to react based on 100% sequence homology		Chicken				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val145 of human SSRP1 protein.				
Background		Suppressor of Ty-16 (SPT16) and structure-specific recognition protein-1 (SSRP1) are subunits of the facilitates chromatin transcription (FACT) complex that is essential for transcription elongation (1,2). FACT facilitates RNA polymerase-dependent transcription of chromatin templates by destabilizing the nucleosomes within the open reading frames of active genes (3-5). FACT destabilizes the nucleosomes, which would otherwise act as barriers to RNA polymerase transcription activity, by disrupting histone-histone and histone-DNA contacts that lead to the eviction of the histone H2A-H2B dimer (2,3,6). FACT may also function as a histone chaperone to reassemble nucleosomes after RNA polymerase passage (7). In addition to transcription, FACT activity has been shown to have a role in DNA replication in yeast and in DNA repair by contributing to the activation of p53 by CK2 and by facilitating histone H2AX-H2B exchange upon DNA damage (8,9).				
Background Re	eferences	1. Winkler, D.D. and Lu 2. Orphanides, G. et a 3. Orphanides, G. et a 4. Birch, J.L. et al. (200 5. Orphanides, G. and 6. Keller, D.M. and Lu, 7. Belotserkovskaya, F 8. Schlesinger, M.B. ar 9. Heo, K. et al. (2008)	I. (1999) <i>Nature</i> 400 I. (1998) <i>Cell</i> 92, 105 9) <i>EMBO J</i> 28, 854-6 Reinberg, D. (2000) H. (2002) <i>J Biol Che</i> R. et al. (2003) <i>Scien</i> Id Formosa, T. (2000)), 284-8. 5-16. 55.) <i>Nature</i> 407, 471-5. <i>m</i> 277, 50206-13.	6.	
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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key		W: Western Blotting ChIP: Chromatin IP				
Cross-Reactivity Key		H: Human M: Mouse R: Rat Mk: Monkey				
Trademarks and Patents		Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. SimpleChIP is a registered trademark of Cell Signaling Technology, Inc.				

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