

SSRP1 Antibody



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Applications: W	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 81	Source/Isotype: Rabbit	UniProt ID: #Q08945	Entrez-Gene Id: 6749
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		SSRP1 Antibody recognizes endogenous levels of total SSRP1 protein. This antibody also cross-reacts with a protein of unknown origin at 150 kDa.				
Species predicted to react based on 100% sequence homology		Hamster, Bovine, Hor	se, Guinea Pig			
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu148 of human SSRP1 protein. Antibodies are purified by protein A and peptide affinity chromatography.				
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 References		 Winkler, D.D. and Luger, K. (2011) J Biol Chem 286, 18369-74. Orphanides, G. et al. (1999) Nature 400, 284-8. Orphanides, G. et al. (1998) Cell 92, 105-16. Birch, J.L. et al. (2009) EMBO J 28, 854-65. Orphanides, G. and Reinberg, D. (2000) Nature 407, 471-5. Keller, D.M. and Lu, H. (2002) J Biol Chem 277, 50206-13. Belotserkovskaya, R. et al. (2003) Science 301, 1090-3. Schlesinger, M.B. and Formosa, T. (2000) Genetics 155, 1593-606. Heo, K. et al. (2008) Mol Cell 30, 86-97. 				
Species Reactiv	itv	Species reactivity is d	etermined 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

Cross-Reactivity Key H: Human M: Mouse R: Rat Mk: Monkey

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