Species Reactivity

Applications Key

Western Blot Buffer

Cross-Reactivity Key



Applications: W	Reactivity: H M R Dg	Sensitivity: Endogenous	MW (kDa): 40	Source/Isotype: Rabbit	UniProt ID: #Q14493	Entrez-Gene Id: 7884	
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 and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity/Sensitivity		SLBP Antibody recognizes endogenous levels of total SLBP protein.					
Species predicted to react based on 100% sequence homology		Monkey					
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Arg160 of human SLBP protein. Antibodies are purified by protein A and peptide affinity chromatography.					
Background		Stem-loop binding protein (SLBP) is the mammalian orthologue of Xenopus SLBP1, a post- transcriptional regulator of histone mRNA. SLBP binds the conserved stem-loop structure at the 3' end of replication-dependent histone mRNAs. SLBP binding aids in the 3' end processing of histone pre- mRNA in association with U7 snRNP and the zinc finger protein hZFP100 (1,2), as well as translation and transport of histone mRNA (3).					
		The expression of replication-dependent histone genes peaks during S phase of the cell cycle. Mammalian SLBP is also cell cycle regulated in most somatic cells, but not in mouse oocytes or embryos, indicating a potential role for SLBP in chromatin organization and remodeling (4).					
		Phosphorylation of SL degradation upon co stability, and is regula	BP at Thr61 by CDM mpletion of DNA syn ated by the peptidyl	(1 regulates SLBP stabili nthesis (5). SLBP associa prolyl isomerase, Pin1, -	ty by targeting the tion with histone m and PP2A phosphat	protein for RNA maintains its ase (6,7).	
Background References		1. Dominski, Z. et al. (2002) <i>Genes Dev</i> 16, 58-71. 2. Dominski, Z. et al. (2001) <i>Mol Cell Biol</i> 21, 2008-17. 3. Sànchez, R. and Marzluff, W.F. (2002) <i>Mol Cell Biol</i> 22, 7093-104. 4. Allard, P. et al. (2002) <i>J Cell Sci</i> 115, 4577-86. 5. Koseoglu, M.M. et al. (2008) <i>Mol Cell Biol</i> 28, 4469-79. 6. Zhang, M. et al. (2012) <i>Biochemistry</i> 51, 3215-31. 7. Krishnan, N. et al. (2012) Mol Cell Biol 32, 4306-22.					

TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

W: Western Blotting

H: Human M: Mouse R: Rat Dg: Dog

	Western Blotting			
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 15(

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Species reactivity is determined by testing in at least one approved application (e.g., western blot).

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X

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