

Store at
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#14382**RPL11 Antibody**

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

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Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications: W	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 20	Source/Isotype: Rabbit	UniProt ID: #P62913	Entrez-Gene Id: 6135
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. <i>Do not aliquot the antibody.</i>				
Specificity/Sensitivity		RPL11 Antibody recognizes endogenous levels of total RPL11 protein.				
Species predicted to react based on 100% sequence homology		Chicken, Bovine, Pig				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human RPL11 protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		Ribosomal protein L11 (RPL11) is a nucleolar protein and component of the 60S ribosomal subunit. Research studies have shown that RPL11 plays a critical role in eukaryotic ribosome biogenesis (1). It has also been suggested that extraribosomal RPL11 functions in an RP-MDM2-p53 network in which RPL11 acts as a sensor of nucleolar stresses that perturb ribosome biogenesis (2). Indeed, RPL11 contributes to enhanced p53 stability and transcriptional activity in response to nucleolar stress and impaired ribosome biogenesis by binding and inhibiting the ubiquitin ligase activity of MDM2 (2-9). In addition to regulating p53 activity, research studies have also shown that RPL11 can inhibit cell cycle progression and ribosome biogenesis in response to nucleolar stress through repression of c-Myc transcriptional activity as well as its mRNA translation (10-12). Mutations in the <i>RPL11</i> gene have been found in patients with Diamond-Blackfan anemia (13).				
Background References		1. Zhang, J. et al. (2007) <i>Genes Dev</i> 21, 2580-92. 2. Horn, H.F. and Vousden, K.H. (2008) <i>Oncogene</i> 27, 5774-84. 3. Zhou, X. et al. (2013) <i>Oncogene</i> 32, 388-96. 4. Bursac, S. et al. (2012) <i>Proc Natl Acad Sci U S A</i> 109, 20467-72. 5. Fumagalli, S. et al. (2009) <i>Nat Cell Biol</i> 11, 501-8. 6. Lohrum, M.A. et al. (2003) <i>Cancer Cell</i> 3, 577-87. 7. Zhang, Y. et al. (2003) <i>Mol Cell Biol</i> 23, 8902-12. 8. Sun, X.X. et al. (2010) <i>J Biol Chem</i> 285, 25812-21. 9. Mahata, B. et al. (2012) <i>Oncogene</i> 31, 3060-71. 10. Dai, M.S. et al. (2010) <i>J Biol Chem</i> 285, 12587-94. 11. Dai, M.S. et al. (2007) <i>EMBO J</i> 26, 3332-45. 12. Challagundla, K.B. et al. (2011) <i>Mol Cell Biol</i> 31, 4007-21. 13. Gazda, H.T. et al. (2008) <i>Am J Hum Genet</i> 83, 769-80.				

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 **M:** Mouse **R:** Rat **Mk:** Monkey

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