


Revision 1

Store at -20°C  #18163	<b>RPL11 (D1P5N) Rabbit mAb</b>	 <b>Cell Signaling</b> TECHNOLOGY®
	<b>Orders:</b> 877-616-CELL (2355) orders@cellsignal.com	
	<b>Support:</b> 877-678-TECH (8324)	
	<b>Web:</b> info@cellsignal.com cellsignal.com	
3 Trask Lane   Danvers   Massachusetts   01923   USA		

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

<b>Applications:</b> W	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 20	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P62913	<b>Entrez-Gene Id:</b> 6135
<b>Product Usage Information</b>	<b>Application</b> Western Blotting			<b>Dilution</b> 1:1000		
<b>Storage</b>	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.					
<b>Specificity/Sensitivity</b>	RPL11 (D1P5N) Rabbit mAb recognizes endogenous levels of total RPL11 protein.					
<b>Species predicted to react based on 100% sequence homology</b>	Chicken, Pig					
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human RPL11 protein.					
<b>Background</b>	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).					
<b>Background References</b>	<div>1. Zhang, J. et al. (2007) <i>Genes Dev</i> 21, 2580-92.</div> <div>2. Horn, H.F. and Vousden, K.H. (2008) <i>Oncogene</i> 27, 5774-84.</div> <div>3. Zhou, X. et al. (2013) <i>Oncogene</i> 32, 388-96.</div> <div>4. Bursać, S. et al. (2012) <i>Proc Natl Acad Sci U S A</i> 109, 20467-72.</div> <div>5. Fumagalli, S. et al. (2009) <i>Nat Cell Biol</i> 11, 501-8.</div> <div>6. Lohrum, M.A. et al. (2003) <i>Cancer Cell</i> 3, 577-87.</div> <div>7. Zhang, Y. et al. (2003) <i>Mol Cell Biol</i> 23, 8902-12.</div> <div>8. Sun, X.X. et al. (2010) <i>J Biol Chem</i> 285, 25812-21.</div> <div>9. Mahata, B. et al. (2012) <i>Oncogene</i> 31, 3060-71.</div> <div>10. Dai, M.S. et al. (2010) <i>J Biol Chem</i> 285, 12587-94.</div> <div>11. Dai, M.S. et al. (2007) <i>EMBO J</i> 26, 3332-45.</div> <div>12. Challagundla, K.B. et al. (2011) <i>Mol Cell Biol</i> 31, 4007-21.</div> <div>13. Gazda, H.T. et al. (2008) <i>Am J Hum Genet</i> 83, 769-80.</div>					

**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

## Trademarks and Patents

Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.

All other trademarks are the property of their respective owners. Visit [cellsignal.com/trademarks](https://cellsignal.com/trademarks) for more information.

## Limited Uses

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.

Update your browser for more security, speed and the best experience on this site.

Update browser

**Orders: 877-616-CELL (2355) • [orders@cellsignal.com](mailto:orders@cellsignal.com) • Support: 877-678-TECH (8324) • [info@cellsignal.com](mailto:info@cellsignal.com) • Web: [cellsignal.com](http://cellsignal.com)**  
For Research Use Only. Not for Use in Diagnostic Procedures.

---