

Store at
-20C
#18163**RPL11 (D1P5N) Rabbit mAb**

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

Applications:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	Endogenous	20	Rabbit IgG	#P62913	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, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

RPL11 (D1P5N) Rabbit mAb recognizes endogenous levels of total RPL11 protein.

Species predicted to react based on 100% sequence homology

Chicken, Pig

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human RPL11 protein.

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 *RPL11* gene have been found in patients with Diamond-Blackfan anemia (13).

Background References

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2. Horn, H.F. and Vousden, K.H. (2008) *Oncogene* 27, 5774-84.
3. Zhou, X. et al. (2013) *Oncogene* 32, 388-96.
4. Bursać, S. et al. (2012) *Proc Natl Acad Sci U S A* 109, 20467-72.
5. Fumagalli, S. et al. (2009) *Nat Cell Biol* 11, 501-8.
6. Lohrum, M.A. et al. (2003) *Cancer Cell* 3, 577-87.
7. Zhang, Y. et al. (2003) *Mol Cell Biol* 23, 8902-12.
8. Sun, X.X. et al. (2010) *J Biol Chem* 285, 25812-21.
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11. Dai, M.S. et al. (2007) *EMBO J* 26, 3332-45.
12. Challagundla, K.B. et al. (2011) *Mol Cell Biol* 31, 4007-21.
13. Gazda, H.T. et al. (2008) *Am J Hum Genet* 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

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