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e at -20C	Reptin/RuvBL2 Antibody		Cell Signaling TECHNOLOGY®	
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com	
60		Support:	877-678-TECH (8324)	
#8959		Web:	info@cellsignal.com cellsignal.com	
#		3 Trask Lane   Danvers   Mas	sachusetts   01923   USA	

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

	<b>Reactivity:</b> H M R Mk	Sensitivity: Endogenous	<b>MW (kDa):</b> 48	Source: Rabbit	UniProt ID: #Q9Y230	Entrez-Gene Id: 10856		
Product Usage Information		plication stern Blotting			Dilution 1:1000			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.						
Specificity / Sensitiv	ity Rep	Reptin/RuvBL2 Antibody recognizes endogenous levels of total Reptin/RuvBL2 protein.						
Species predicted to react based on 100% sequence homology	Ď	Xenopus, Zebrafish, Bovine, Dog						
Source / Purification	resid	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly263 of human Reptin/RuvBL2 protein. Antibodies are purified by protein A and peptide affinity chromatography.						
Background		Reptin/RuvBL2 and Pontin/RuvBL1 are closely related members of the AAA+ (ATPase associated with diverse cellular activities) superfamily of proteins, and are putatively homologous to bacterial RuvB proteins that drive branch migration of Holliday junctions (1). Reptin and Pontin function together as essential components of chromatin remodeling and modification complexes, such as INO80, TIP60, SRCAP, and Uri1, which play key roles in regulating gene transcription (1,2). In their capacity as essential transcriptional co-regulators, Reptin and Pontin have both been implicated in oncogenic transformations, including those driven by c-Myc, $\beta$ -catenin, and E1A (2-7). Reptin also plays a role in modulating cellular responses to hypoxia. Hypoxia induced methylation of Reptin by the methyltransferase G9a leads to its recruitment to hypoxia responsive promoters where it negatively regulates transcription of these genes (8). In addition to transcriptional regulatory roles, Reptin also participates in the telomerase biogenesis processes as part of the telomerase complex and in DNA damage response as part of the TIP60 acetyltransferase complex that stimulates ATM kinase activity necessary for phosphorylation of proteins involved in both checkpoint activation and DNA repair (9,10).						
Background References		<ol> <li>Jha, S. and Dutta, A. (2009) <i>Mol Cell</i> 34, 521-33.</li> <li>Gallant, P. (2007) <i>Trends Cell Biol</i> 17, 187-92.</li> <li>Huber, O. et al. (2008) <i>Cancer Res</i> 68, 6873-6.</li> <li>Kim, J.H. et al. (2005) <i>Nature</i> 434, 921-6.</li> <li>Bauer, A. et al. (2000) <i>EMBO J</i> 19, 6121-30.</li> <li>Wood, M.A. et al. (2000) <i>Mol Cell</i> 5, 321-30.</li> <li>Dugan, K.A. et al. (2002) <i>Oncogene</i> 21, 5835-43.</li> <li>Lee, J.S. et al. (2010) <i>Mol Cell</i> 39, 71-85.</li> <li>Venteicher, A.S. et al. (2008) <i>Cell</i> 132, 945-57.</li> <li>Sun, Y. et al. (2010) <i>Cell Cycle</i> 9, 930-6.</li> </ol>						
Species Reactivity	Spec	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		WB: Western Blotting						
Cross-Reactivity Key	y							

https://www.cellsignal.com/datasheet.jsp?productId=8959&images=0&protocol=0

1/1/24, 8:58 AM	Reptin/RuvBL2 Antibody (#8959) Datasheet Without Images Cell Signaling Technology H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected				
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