

## Reptin/RuvBL2 Antibody



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

| Applications:<br>W   | Reactivity:<br>H M R Mk | <b>Sensitivity:</b><br>Endogenous   | <b>MW (kDa):</b><br>48   | <b>Source/Isotype:</b><br>Rabbit  | UniProt ID:<br>#Q9Y230   | Entrez-Gene Id<br>10856   |
|--|-------------------------|---|--|---|--|---|
| Product Usage<br>Information                                     |                         | <b>Application</b> Western Blotting   |  |   | <b>Dilution</b> 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/Sensitivity  |                         | Reptin/RuvBL2 Antibody recognizes endogenous levels of total Reptin/RuvBL2 protein.   |  |   |  |   |
| Species predicted to react<br>based on 100% sequence<br>homology |                         | Xenopus, Zebrafish, Bovine, Dog   |  |   |  |   |
| Source / Purification  |                         | 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   |                         | diverse cellular activit<br>proteins that drive bra<br>essential components<br>SRCAP, and Uri1, whic<br>essential transcription<br>transformations, inclu<br>Reptin also plays a rol<br>Reptin by the methylt<br>negatively regulates t<br>Reptin also participate<br>in DNA damage respo   | ies) superfamily of anch migration of he of chromatin remonder the play key roles in a laceregulators, Reding those driven e in modulating ceransferase G9a lead ranscription of the serin the telomerase as part of the laceregular the serin the telomerase as part of the serin t | osely related members of proteins, and are putative solliday junctions (1). Repodeling and modification regulating gene transcripeptin and Pontin have been been sold to have been sold to the proteins and lular responses to hypodes to its recruitment to hear genes (8). In additional proteins involved in both proteins involved in proteins in pro | vely homologous to<br>otin and Pontin fun-<br>ocomplexes, such a<br>otion (1,2). In their o<br>oth been implicated<br>E1A (2-7).<br>xia. Hypoxia induce<br>ypoxia responsive<br>to transcriptional re<br>os part of the telom<br>complex that stimul | bacterial RuvB<br>ction together as<br>s INO80, TIP60,<br>capacity as<br>d in oncogenic<br>d methylation of<br>promoters where it<br>egulatory roles,<br>erase complex and<br>ates ATM kinase |
| Background References  |                         | 1. Jha, S. and Dutta, A. (2009) <i>Mol Cell</i> 34, 521-33. 2. Gallant, P. (2007) <i>Trends Cell Biol</i> 17, 187-92. 3. Huber, O. et al. (2008) <i>Cancer Res</i> 68, 6873-6. 4. Kim, J.H. et al. (2005) <i>Nature</i> 434, 921-6. 5. Bauer, A. et al. (2000) <i>EMBO J</i> 19, 6121-30. 6. Wood, M.A. et al. (2000) <i>Mol Cell</i> 5, 321-30. 7. Dugan, K.A. et al. (2002) <i>Oncogene</i> 21, 5835-43. 8. Lee, J.S. et al. (2010) <i>Mol Cell</i> 39, 71-85. 9. Venteicher, A.S. et al. (2008) <i>Cell</i> 132, 945-57. 10. Sun, Y. et al. (2010) <i>Cell Cycle</i> 9, 930-6. |  |   |  |   |
| Species Reactivi   | tv                      | Species reactivity is de  | etermined by testin  | g in at least one approve   | ed 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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