

Store at  
-20°C

#74775

**Pontin/RUVBL1 (D1L8J) XP® Rabbit mAb**
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**For Research Use Only. Not for Use in Diagnostic Procedures.**

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, ChIP	H M R Mk	Endogenous	50	Rabbit IgG	#Q9Y265	8607

**Product Usage Information**

For optimal ChIP results, use 10 µl of antibody and 10 µg of chromatin (approximately 4 x 10<sup>6</sup> cells) per IP. This antibody has been validated using SimpleChIP® Enzymatic Chromatin IP Kits.

Application	Dilution
Western Blotting	1:1000
Chromatin IP	1:50

**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**

Pontin/RUVBL1 (D1L8J) XP® Rabbit mAb recognizes endogenous levels of total Pontin/RUVBL1 protein.

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Glu428 of human Pontin/RUVBL1 protein.

**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, β-catenin, and E1A (2-7).

**Background References**

1. Jha, S. and Dutta, A. (2009) *Mol Cell* 34, 521-33.
2. Gallant, P. (2007) *Trends Cell Biol* 17, 187-92.
3. Huber, O. et al. (2008) *Cancer Res* 68, 6873-6.
4. Kim, J.H. et al. (2005) *Nature* 434, 921-6.
5. Bauer, A. et al. (2000) *EMBO J* 19, 6121-30.
6. Wood, M.A. et al. (2000) *Mol Cell* 5, 321-30.
7. Dugan, K.A. et al. (2002) *Oncogene* 21, 5835-43.

**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 **ChIP:** Chromatin IP

**Cross-Reactivity Key**

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

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