**Pontin/RUVBL1 (D1L8J) XP® Rabbit mAb**

**Applications:** Western, ChIP Endogenous

<table>
<thead>
<tr>
<th>Applications</th>
<th>Species Cross-Reactivity*</th>
<th>Molecular Wt.</th>
<th>Isotype</th>
</tr>
</thead>
<tbody>
<tr>
<td>W, ChIP</td>
<td>H, M, R, Mk</td>
<td>50 kDa</td>
<td>Rabbit IgG**</td>
</tr>
</tbody>
</table>

**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).

**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 References:**


**Recommended Antibody Dilutions:**

Western blotting 1:1000
Chromatin IP 1:50
Optimal ChIP conditions: 10 µl of antibody & 10 µg of chromatin (4 x 10⁶ cells) per IP. Antibody validated using SimpleChIP® Enzymatic ChIP Kits.

For product specific protocols and a complete listing of recommended companion products please see the product web page at www.cellsignal.com

**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.

**Species cross-reactivity is determined by western blot.**

**Anti-rabbit secondary antibodies must be used to detect this antibody.**

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<table>
<thead>
<tr>
<th>Signal relative to input</th>
<th>C/EBP-α</th>
<th>α Satellite</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.002</td>
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<td>0.012</td>
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</tbody>
</table>

**Western blot analysis of extracts from various cell lines using Pontin/RUVBL1 (D1L8J) XP® Rabbit mAb.**

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**Important:** For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight.

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