Pontin/RUVBL1 (D1L8J) XP® Rabbit mAb

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

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

Product Usage Information
For optimal ChIP results, use 10 μl of antibody and 10 μg of chromatin (approximately 4 x 10⁶ cells) per IP. This antibody has been validated using SimpleChIP® Enzymatic Chromatin IP Kits.

Application
Western Blotting
Chromatin IP

 Dilution
1:1000
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

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
WB: Western Blotting ChiP: Chromatin IP

Cross-Reactivity Key

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