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## Coilin (D2L3J) XP® Rabbit mAb



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Applications: Reactivity: Sensitivity: MW (kDa): Source/Isotype: **UniProt ID:** Entrez-Gene Id: WB, IF-IC H Mk Endogenous 80 Rabbit IgG #P38432 8161 **Product Usage** Application Dilution Information 1:1000 Western Blotting Immunofluorescence (Immunocytochemistry) 1:800 Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than **Storage** 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody. Coilin (D2L3J) XP® Rabbit mAb recognizes endogenous levels of total coilin protein. Specificity / Sensitivity Source / Purification Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the carboxy terminus of human coilin protein. **Background** The nuclear protein coilin (COIL) is found in eukaryotic nucleoplasm and serves a marker for suborganelles known as Cajal bodies (1,2). Cajal bodies (CB) are nuclear structures that are home to various RNA-processing complexes, including those responsible for pre-mRNA splicing, processing of rRNA and histone pre-mRNA, and telomere maintenance (1-3). The presence of coilin protein is essential for CB formation, and the protein plays a role in maintaining Cajal body structural integrity (4,5). Research studies indicate that coilin binds RNA, including telomerase RNA (hTR), pre-rRNA, and U2 snRNA, in addition to DNA (5). Additional research indicates that coilin protein may exhibit specific RNase activity towards hTR and U2 snRNA transcripts, and that this activity may be regulated through phosphorylation of coilin (6). **Background References** 1. Dundr, M. (2012) Curr Opin Cell Biol 24, 415-22. 2. Lam, Y.W. et al. (2002) Mol Biol Cell 13, 2461-73. 3. Andrade, L.E. et al. (1991) J Exp Med 173, 1407-19. 4. Hebert, M.D. (2013) Int J Biochem Cell Biol 45, 1314-7. 5. Broome, H.J. and Hebert, M.D. (2012) PLoS One 7, e36300.

**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 IF-IC: Immunofluorescence (Immunocytochemistry)

**Cross-Reactivity Key** 

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

6. Broome, H.J. et al. (2013) Biol Open 2, 407-15.

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