Ezh2 (D2C9) XP® Rabbit mAb

For Research Use Only. Not For Use In Diagnostic Procedures.

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.

Recommended Antibody Dilutions:

- Western blotting: 1:1000
- Immunoprecipitation: 1:300
- Immunohistochemistry (Paraffin): 1:50
- Chromatin IP / Chromatin IP-seq: 1:100
- Immunofluorescence (IF-F): 1:200
- Immunofluorescence (IF-IC): 1:100
- Immunofluorescence (IF): 1:100
- Flow Cytometry: 1:200

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

Background References:


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Western blot analysis of extracts from MCF7, Neuro-2a, and COS-7 cell lines using Ezh2 (D2C9) XP® Rabbit mAb.

Immunohistochemical analysis of paraffin-embedded human breast carcinoma using Ezh2 (D2C9) XP® Rabbit mAb.

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.

Applications Key: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E—ELISA-Peptide

Species Cross-Reactivity Key: H—human M—mouse R—rat Mm—mouse Mi—mink Ci—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine

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

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Background References:


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#5246 Store at -20°C

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Chromatin immunoprecipitations were performed with cross-linked chromatin from NCCIT cells and either Ezh2 (D2C9) XP® Rabbit mAb or Normal Rabbit IgG #2729 using SimpleChIP® Enzymatic Chromatin IP Kit (Magnetic Beads) #9003. The enriched DNA was quantified by real-time PCR using SimpleChIP® Human HoxA1 Intron 1 Primers #7707, SimpleChIP® Human HoxA2 Promoter Primers #5517, and SimpleChIP® Human α Satellite Repeat Primers #4486. The amount of immunoprecipitated DNA in each sample is represented as signal relative to the total amount of input chromatin, which is equivalent to one.

Immunohistochemical analysis of paraffin-embedded human cervical carcinoma using Ezh2 (D2C9) XP® Rabbit mAb.

Immunohistochemical analysis of paraffin-embedded human lymphoma using Ezh2 (D2C9) XP® Rabbit mAb.

Flow cytometric analysis of human peripheral blood mononuclear cells untreated (left) and treated (right) with anti-human CD3 (10 µg/ml, coated plates) and anti-human CD28 (5 µg/ml) for 3 days at 37°C using EZH2 (D2C9) XP® Rabbit mAb and co-stained with an anti-human CD3 antibody. Anti-rabbit IgG (H+L), F(ab')2 Fragment (Alexa Fluor® 488 Conjugate) #4412 was used as a secondary antibody.

Confocal immunofluorescent analysis of mouse hippocampus (left) and cerebellum (right) using Ezh2 (D2C9) XP® Rabbit mAb (green). Actin filaments were labeled with DyLight™ 554 Phalloidin #13054 (red). Blue pseudocolor = DRAQ5® #4084 (fluorescent DNA dye).
Chromatin immunoprecipitations were performed with cross-linked chromatin from HeLa cells and either Ezh2 (D2C9) XP® Rabbit mAb or Tri-Methyl-Histone H3 (Lys27) (C36B11) Rabbit mAb, using SimpleChIP® Enzymatic Chromatin IP Kit (Magnetic Beads) #9003. DNA Libraries were prepared using SimpleChIP® ChIP-seq DNA Library Prep Kit for Illumina® #56795. EZH2 and H3K27me3 are known to associate with each other on chromatin. The figure shows binding of both EZH2 and H3K27me3 across chromosome 20 (upper), including MYT1 gene (lower).