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Nanog (D73G4) XP[®] Rabbit mAb (ChIP Formulated)



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Applications:Reactivity:Sensitivity:Source/Isotype:UniProt ID:Entrez-Gene Id:ChIP, ChIP-seq, C&R,
C&THEndogenousRabbit IgG#Q9H9S079923

Product Usage Information

For optimal ChIP and ChIP-seq results, use 10 μ I of antibody and 10 μ g of chromatin (approximately 4 x 10⁶ cells) per IP. This antibody has been validated using SimpleChIP[®] Enzymatic Chromatin IP Kits.

The CUT&RUN dilution was determined using CUT&RUN Assay Kit #86652.

The CUT&Tag dilution was determined using CUT&Tag Assay Kit #77552.

Application	Dilution
Chromatin IP	1:50
Chromatin IP-seq	1:50
CUT&RUN	1:50
CUT&Tag	1:50

 $\textbf{Storage} \hspace{1.5cm} \textbf{Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 } \mu \text{g/ml BSA, 50\% glycerol and less than} \\$

0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity / Sensitivity Nanog (D73G4) XP® Rabbit mAb (ChIP Formulated) detects endogenous levels of total nanog protein.

Source / Purification Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to the

amino terminus of human nanog protein.

Background Nanog is a homeodomain-containing transcription factor that is essential for the maintenance of

pluripotency and self renewal in embryonic stem cells (1). Nanog expression is controlled by a network of factors including Sox2 and the key pluripotency regulator Oct-4 (1). Recent advances in somatic cell reprogramming have utilized viral expression of combinations of transcription factors including nanog, Oct-

4, Sox2, KLF4, c-Myc, and LIN28 (2,3).

Background References 1. Kim, J. et al. (2008) *Cell* 132, 1049-61.

2. Takahashi, K. et al. (2007) Nat Protoc 2, 3081-9.

3. Yu, J. et al. (2007) Science 318, 1917-20.

Species Reactivity Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Applications Key

ChIP: Chromatin IP ChIP-seq: Chromatin IP-seq C&R: CUT&RUN C&T: CUT&Tag

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

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