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## Nanog (D2A3) XP® Rabbit mAb



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Applications: WB, IP, IF-IC, FC-FP, ChIP, ChIP-seq, C&R	Reactivity: M	Sensitivity: Endogenous	<b>MW (kDa):</b> 29-42	Source/Isotype: Rabbit IgG	UniProt ID: #Q80Z64	Entrez-Gene Id: 71950
Product Usage Information	For optimal ChIP and ChIP-seq results, use 5 $\mu$ l of antibody and 10 $\mu$ g of chromatin (approximately 4 x 10 cells) per IP. This antibody has been validated using SimpleChIP <sup>®</sup> Enzymatic Chromatin IP Kits.					
	The CUT&RUN dilution was determined using CUT&RUN Assay Kit #86652.					
	Ар	Application				Dilution
	We	estern Blotting				1:1000
	Imr	munoprecipitation				1:100
	Imr	Immunofluorescence (Immunocytochemistry)				1:1000
	Flo	w Cytometry (Fixed	/Permeabilized)			1:200
	Ch	romatin IP				1:100

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.

Nanog (D2A3) XP® Rabbit mAb recognizes endogenous levels of total mouse nanog protein. This antibody Specificity / Sensitivity is expected to recognize nanog 1a and 1b isoforms. This antibody does not cross-react with human nanog.

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

residues near the amino terminus of mouse nanog protein.

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

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

**CUT&RUN** 

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).

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 IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)

FC-FP: Flow Cytometry (Fixed/Permeabilized) ChIP: Chromatin IP ChIP-seq: Chromatin IP-seq

C&R: CUT&RUN

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster **Cross-Reactivity Key** 

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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**Limited Uses** 

Nanog (D2A3) XP® Rabbit mAb (#8822) Datasheet Without Images Cell Signaling Technology

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