bs-10414R

[Primary Antibody]

Nanog Rabbit pAb



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_ DATACHEET		
Host: Rabbit	Isotype: IgG	Applications: WB (1:500-2000)
Clonality: Polyclonal		IHC-P (1:100-500)
GenelD: 71950		IF (1:100-500)
Target: Nanog		
Immunogen: KLH conjugated sy 101-200/305.	ynthetic peptide derived from mouse Nanog:	
Purification: affinity purified by Protein A		Reactivity: Human Mouse Rat
Concentration: 1mg/ml		
Storage: 0.01M TBS (pH7.4) Glycerol. Shipped at 4°C. St freeze/thaw cycles	with 1% BSA, 0.02% Proclin300 and 50% ore at -20°C for one year. Avoid repeated s.	Predicted 34 kDa MW.: ^{34 kDa}
 Background: Nanog is a newly identified homeodomain-bearing transcriptional factor. Nanog expression is specific to early embryos and pluripotential stem cells including mouse and human embryonic stem (ES) and embryonic germ (EG) cells. It is a key molecule involved in the signaling pathway for maintaining the capacity for self-renewal and pluripotency, bypassing regulation by the STAT3 pathway. Nanog mRNA is present in pluripotent mouse and human cell lines, and absent from differentiated cells. Nanog-deficient ES cells lose pluripotency and differentiate into extraembryonic endoderm lineage. Thus it is one of the molecular markers suitable for recognizing the undifferentiated state of stem cells in the mouse and human. NANOG is a new marker for testicular carcinoma in situ and germ cell tumors. NANOG is a gene expressed in embryonic stem cells (ESCs) and is thought to be a key factor in maintaining pluripotency. NANOG thought to function in concert with other factors such as POUSF1 and SOX2 to establish ESC identity. These cells offer an important area of study because of their ability to maintain pluripotency. In other words, these cells have the ability to become virtually any cell of any of the three germ layers (endoderm, ectoderm, mesoderm). 		Subcellular Location:

— VALIDATION IMAGES



Sample: A431(Human) Cell Lysate at 30 ug Primary: Anti-Nanog (bs-10414R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 34 kD Observed band size: 34 kD



Sample: NIH/3T3(Mouse) Cell Lysate at 30 ug Primary: Anti-Nanog (bs-10414R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 34 kD Observed band size: 34 kD



Tissue/cell: mouse embryo tissue; 4% Paraformaldehyde-fixed and paraffinembedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-Nanog Polyclonal Antibody, Unconjugated(bs-10414R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: rat testis tissue; 4% Paraformaldehyde-fixed and paraffinembedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-Nanog Polyclonal Antibody, Unconjugated(bs-10414R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Paraformaldehyde-fixed, paraffin embedded (Mouse ovary); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Nanog) Polyclonal Antibody, Unconjugated (bs-10414R) at 1:400 overnight at 4°C, followed by a conjugated Goat Anti-Rabbit IgG antibody (bs-0295G-CY3) for 90 minutes, and DAPI for nuclei staining.

- SELECTED CITATIONS -

- [IF=4.486] Wang L et al. Lung CSC derived exosomal miR 210 3p contributes to a pro metastatic phenotype in lung cancer by targeting FGFRL1. J Cell Mol Med. 2020 Jun;24(11):6324-6339. WB ;Human. 32396269
- [IF=3.247] Nasr M et al. Resistance of primary breast cancer cells with enhanced pluripotency and stem cell activity to sex hormonal stimulation and suppression. (2018) Int J Biochem Cell Biol. Oct 22;105:84-93. FCM ;Human. 30359767
- [IF=3.121] Cho-Won Kim et al. Inhibitory effects of cigarette smoke extracts on neural differentiation of Mouseembryonic stem cells. Reprod Toxicol. 2020 Aug;95:75-85. WB ;MOUSE. 32454085