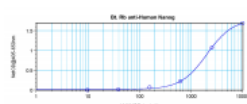


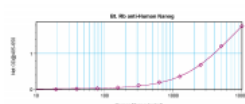


Nanog Antibody (biotin)

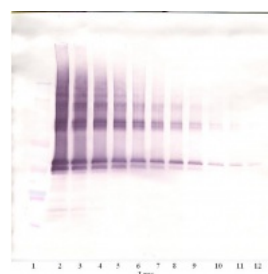
CATALOG NUMBER: 38-104



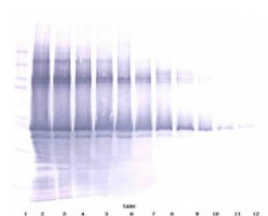
To detect hNanog by direct ELISA (using 100 μ l/well antibody solution) a concentration of 0.25 – 1.0 μ g/ml of this antibody is required. This biotinylated polyclonal antibody, in conjunction with compatible secondary reagents, allows the detection of at least 0.2 – 0.4 ng/well of recombinant hNanog.



To detect hNanog by sandwich ELISA (using 100 μ l/well antibody solution) a concentration of 0.25 – 1.0 μ g/ml of this antibody is required. This biotinylated polyclonal antibody, in conjunction with ProSci's Polyclonal Anti-Human Nanog (38-108) as a capture antibody, allows the detection of at least 0.2 – 0.4 ng/well of recombinant hNanog.



To detect hNanog by Western Blot analysis this antibody can be used at a concentration of 0.1 - 0.2 μ g/ml. Used in conjunction with compatible secondary reagents the detection limit for recombinant hNanog is 1.5 - 3.0 ng/lane, under either reducing or non-reducing conditions.



To detect hNanog by Western Blot analysis this antibody can be used at a concentration of 0.1 - 0.2 μ g/ml. Used in conjunction with compatible secondary reagents the detection limit for recombinant hNanog is 1.5 - 3.0 ng/lane, under either reducing or non-reducing conditions.

Specifications

SPECIES REACTIVITY: Human

TESTED APPLICATIONS: ELISA, WB

APPLICATIONS: ELISA:

Direct:

To detect hNanog by direct ELISA (using 100 μ L/well antibody solution) a concentration of 0.25 - 1.0 μ g/mL of this antibody is required. This biotinylated polyclonal antibody, in conjunction with compatible secondary reagents, allows the detection of at least 0.2 - 0.4 ng/well of recombinant hNanog.

Sandwich:

To detect hNanog by sandwich ELISA (using 100 μ L/well antibody solution) a concentration of 0.25 - 1.0 μ g/mL of

this antibody is required.

Western Blot:

To detect hNanog by Western Blot analysis this antibody can be used at a concentration of 0.1 - 0.2 ug/mL. Used in conjunction with compatible secondary reagents the detection limit for recombinant hNanog is 1.5 - 3.0 ng/lane, under either reducing or non-reducing conditions.

USER NOTE:	Centrifuge vial prior to opening.
IMMUNOGEN:	Produced from sera of rabbits pre-immunized with highly pure (>98%) recombinant hNanog. Human Nanog specific antibody was purified by affinity chromatography and then biotinylated.
HOST SPECIES:	Rabbit

Properties

PURIFICATION:	Nanog antibody was purified by affinity chromatography and then biotinylated.
PHYSICAL STATE:	Lyophilized
STORAGE CONDITIONS:	Nanog antibody is stable for at least 2 years from date of receipt at -20°C. The reconstituted antibody is stable for at least two weeks at 2-8°C. Frozen aliquots are stable for at least 6 months when stored at -20°C. Avoid repeated freeze-thaw cycles.
CLONALITY:	Polyclonal
CONJUGATE:	Biotin

Additional Info

ALTERNATE NAMES:	Homeobox protein NANOG, Homeobox transcription factor Nanog, hNanog
ACCESSION NO.:	Q9H9S0
PROTEIN GI NO.:	118573073
OFFICIAL SYMBOL:	NANOG
GENE ID:	79923

Background

BACKGROUND:	Nanog is a newly identified homeodomain-bearing transcriptional factor. Nanog expression is specific to early embryos and pluripotent 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.
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FOR RESEARCH USE ONLY

December 13, 2016