Product Datasheet

Nanog Antibody - BSA Free
NBP2-24941

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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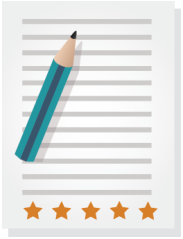


NBP2-24941

Nanog Antibody - BSA Free

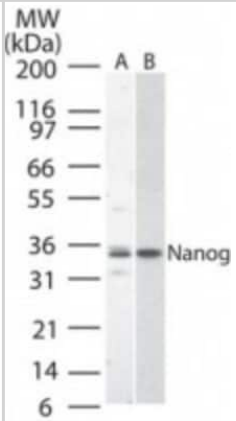
Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Protein G purified
Buffer	PBS

Product Description	
Host	Rabbit
Gene ID	79923
Gene Symbol	NANOG
Species	Human, Mouse
Marker	Embryonic Stem Cell Marker
Immunogen	A portion of amino acids 1-50 of human NANOG was used as the immunogen.

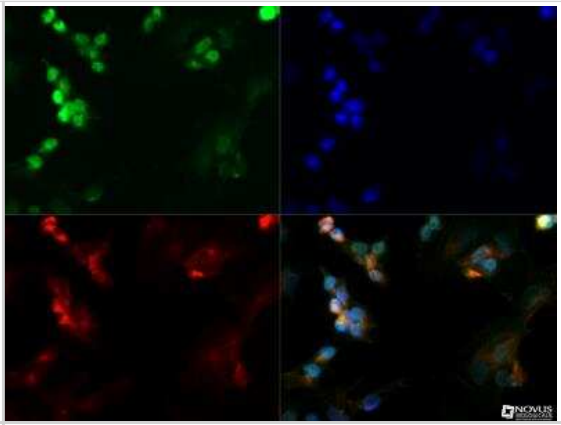
Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence
Recommended Dilutions	Western Blot 0.5-2 ug/ml, Flow Cytometry reported in scientific literature (PMID 26283864), Immunocytochemistry/ Immunofluorescence 1:10

Images

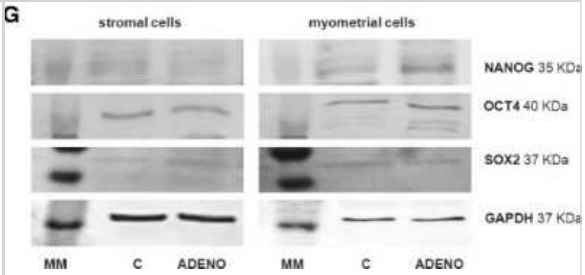
Western Blot: Nanog Antibody [NBP2-24941] - Analysis of Nanog in (A) HeLa and (B) NIH 3T3 cell lysate using NBP2-24941 at 2 ug/ml.



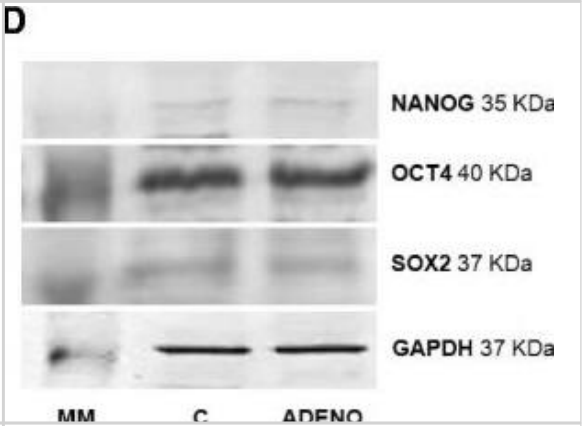
Immunocytochemistry/Immunofluorescence: Nanog Antibody [NBP2-24941] - Nanog antibody was tested in Ntera2 cells with DyLight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and DyLight 550 (red). Image objective 40x. An antibody dilution of 1:10 was used.



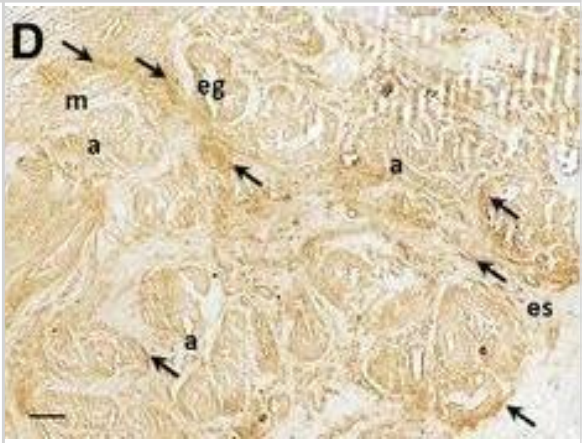
Western Blot: Nanog Antibody [NBP2-24941] - Protein expression of pluripotency markers in uterine cells isolated from control cows and from cows with adenomyosis. MM - molecular weight marker, C - cells obtained from control cows, ADENO - cells obtained from cows with adenomyosis. Image collected and cropped by CiteAb from the following publication (https://rbej.biomedcentral.com/articles/10.1186/s12958-015-0106-0), licensed under a CC-BY license.



Protein expression of NANOG a, OCT4 b & SOX2 c in bovine uterine tissues obtained from control cows & from cows with adenomyosis. Data were normalized against glyceraldehyde-3-phosphate dehydrogenase (GAPDH). Bars represent the mean ± SEM. There were no statistical differences between uterine normal & adenomyotic tissues ($P > 0.05$), as determined by Student's t-test. Representative blots for NANOG, OCT4, SOX2 & GAPDH are shown below the graphs d. MM – molecular weight marker, C – tissues obtained from control cows, ADENO – tissues obtained from cows with adenomyosis Image collected & cropped by CiteAb from the following publication (http://www.rbej.com/content/13/1/110), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Immunohistochemistry: Nanog Antibody [NBP2-24941] - Immunodetection of pluripotency markers in uterine tissues from control cows & from cows with adenomyosis. a, b – haematoxylin & eosin stained slides of control & adenomyotic uterus, respectively; c, d – NANOG immunodetection in control & adenomyotic tissue, respectively; e, f – immunolocalisation of OCT4 in normal & adenomyotic tissue, respectively; g, h – SOX2 immunodetection in control & adenomyotic tissue, respectively; i, j, k – no Ab, negative controls for NANOG, OCT4 & SOX2, respectively. Unspecific IgG controls (pictures not shown) served similar pictures as no Ab control. Arrows indicate the most intense histochemical reactions; dotted line indicate endometrial-myometrial border; e – endometrium, m – myometrium, es – endometrial stroma, eg – endometrial gland, a – adenomyotic lesion, v – vessel. Scale bars: 20 μm Image collected & cropped by CiteAb from the following publication (http://www.rbej.com/content/13/1/110), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Lupicka M, Socha B, Szczepanska A, Korzekwa A. Expression of pluripotency markers in the bovine uterus with adenomyosis. Reprod Biol Endocrinol 2015-01-01 [PMID: 26416515] (WB)

Dhamodaran K, Subramani M, Jeyabalan N et al. Characterization of ex vivo cultured limbal, conjunctival, and oral mucosal cells: A comparative study with implications in transplantation medicine. Mol. Vis. 2015-08-18 [PMID: 26283864] (FLOW, Human)

Details:
Nanog antibody was used for FLOW on limbal, conjunctival, and oral epithelial cells that were collected from human biopsy explant cultures established on the denuded human amniotic membrane with corneal lineage differentiation medium. The FLOW assay involved trypsinization of day 14 cultures, fixation using 4% PFA on ice for 10 minutes, permeabilization with 0.1% Triton X 100, primary detection with anti-rabbit Alexa 488 conjugated secondary antibody (Figure 1).

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Products Related to NBP2-24941

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP2-13177PEP	Nanog Antibody Blocking Peptide

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