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Product datasheet for TA306915

NANOG Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 1 - 2 ug/mL, ICC: 5 ug/mL, IF: 20 ug/mL
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	NANOG antibody was raised against a 19 amino acid peptide near the center of human NANOG.
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	Affinity chromatography purified via peptide column
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	Nanog homeobox
Database Link:	NP_079141 Entrez Gene 71950 MouseEntrez Gene 414065 RatEntrez Gene 79923 Human Q9H9S0

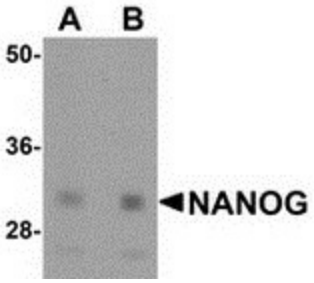
View online »

Background: Expression of NANOG is required for the maintenance of pluripotency in epiblast and embryonic stem (ES) cells as well as for the ability to maintain ES self-renewal independently of LIF/Stat3. The role of NANOG in embryonic development suggested that it might be useful in the creation of stem cells that might be useful in cell replacement therapies in the treatment of several degenerative diseases. Artificial stem cells, termed induced pluripotent stem (iPS) cells, can be created by expressing POU5F1 (also known as Oct-4), another germline-specific transcription factor, and the transcription factors Sox2, Klf4 and Lin28 along with c-Myc in mouse fibroblasts. More recently, experiments have demonstrated that iPS cells could be generated using expression plasmids expressing NANOG, Sox2, KlfF4 and c-Myc, eliminating the need for virus introduction, thereby addressing a safety concern for potential use of iPS cells in regenerative medicine.

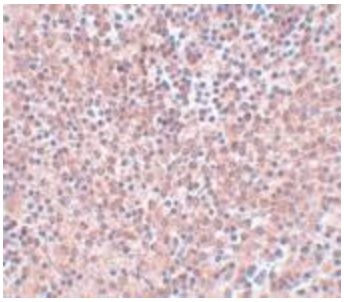
Synonyms: homeobox transcription factor Nanog; homeobox transcription factor Nanog-delta 48; Nanog homeobox

Protein Families: Cancer stem cells, Embryonic stem cells, ES Cell Differentiation/IPS, Induced pluripotent stem cells, Stem cell - Pluripotency

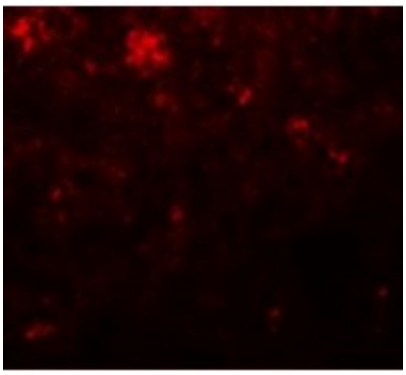
Product images:



Western blot analysis of NANOG in human spleen tissue lysate with NANOG antibody at (A) 1 and (B) 2 ug/mL.



Immunohistochemistry of NANOG in human spleen tissue with NANOG antibody at 5 ug/mL.



Immunofluorescence of NANOG in Human Spleen cells with NANOG antibody at 20 ug/mL.