ARG56612
anti-NANOG antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes NANOG
Tested Reactivity	Hu, Ms, Cow, Dog, Pig
Tested Application	ELISA, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	NANOG
Species	Human
Immunogen	E.coli derived Recombinant Human Nanog. (SVDPACPQSL PCFEASDCKE SSPMPVICGP EENYPSLQMS SAEMPHTETV SPLPSSMDLL IQDSPDSSTS PKGKQPTSAE NSVAKKEDKV PVKKQKTRTV FSSTQLCVLN DRFQRQKYLS LQQMQELSNI LNLSYKQVKT WFQNQRMKSK RWQKNNWPKN SNGVTQKASA PTYPSLYSSY HQGCLVNPTG NLPMWSNQTW NNSTWSNQTQ NIQSWSNHSW NTQTWCTQSW NNQAWNSPFY NCGEESLQSC MQFQPNSPAS DLEAALEAAG EGLNVIQQTT RYFSTPQTMD LFLNYSMNMQ PEDV)
Conjugation	Un-conjugated
Alternate Names	Homeobox transcription factor Nanog; Homeobox protein NANOG; hNanog

Application Instructions

Application table

Application	Dilution
ELISA	Sandwich: 0.5 - 2.0 µg/ml with ARG56727 as a detection antibody
IHC-P	0.5 µg/ml
WB	0.1 - 0.2 µg/ml

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

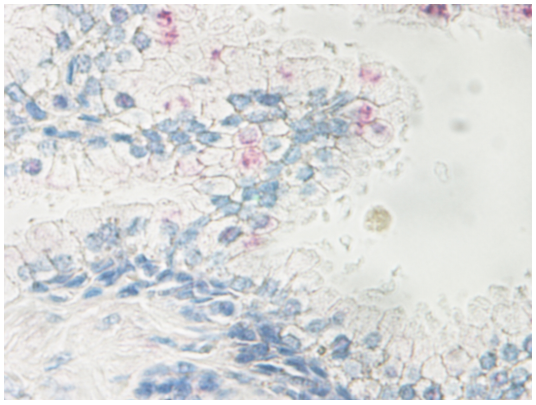
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS (pH 7.2)
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

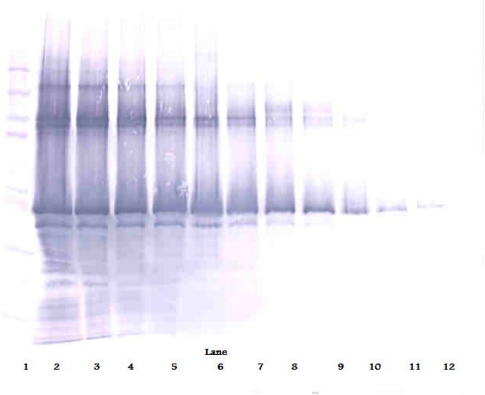
Database links	GeneID: 71950 Mouse GeneID: 79923 Human Swiss-port # Q80Z64 Mouse Swiss-port # Q9H9S0 Human
Gene Symbol	NANOG
Gene Full Name	Nanog homeobox
Background	The protein encoded by this gene is a DNA binding homeobox transcription factor involved in embryonic stem (ES) cell proliferation, renewal, and pluripotency. The encoded protein can block ES cell differentiation and can also autorepress its own expression in differentiating cells. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2015]
Function	Transcription regulator involved in inner cell mass and embryonic stem (ES) cells proliferation and self-renewal. Imposes pluripotency on ES cells and prevents their differentiation towards extraembryonic endoderm and trophectoderm lineages. Blocks bone morphogenetic protein-induced mesoderm differentiation of ES cells by physically interacting with SMAD1 and interfering with the recruitment of coactivators to the active SMAD transcriptional complexes. Acts as a transcriptional activator or repressor. Binds optimally to the DNA consensus sequence 5'-TAAT[GT][GT]-3' or 5'-[CG][GA][CG]C[GC]ATTAN[GC]-3'. Able to autorepress its expression in differentiating (ES) cells: binds to its own promoter following interaction with ZNF281/ZFP281, leading to recruitment of the NuRD complex and subsequent repression of expression. When overexpressed, promotes cells to enter into S phase and proliferation. [UniProt]
Calculated Mw	35 kDa

Images



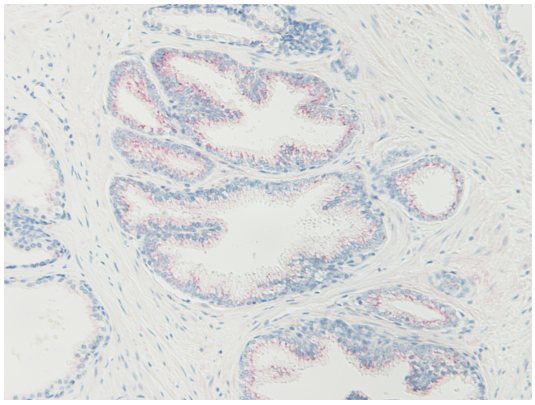
ARG56612 anti-NANOG antibody IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded sections of Human prostate malignant adenocarcinoma. The recommended ARG56612 anti-NANOG antibody concentration is 0.5 µg/ml with an overnight incubation at 4°C. An alkaline phosphatase-labeled polymer detection system was used with a non-alcohol soluble red chromogen. Antigen Retrieval: Boil tissue section in Sodium Citrate buffer (pH 6.0) followed by cooling at RT for 20 min.



ARG56612 anti-NANOG antibody WB image

Western blot: 250 - 0.24 ng of Human Nanog stained with ARG56612 anti-NANOG antibody, under reducing conditions.



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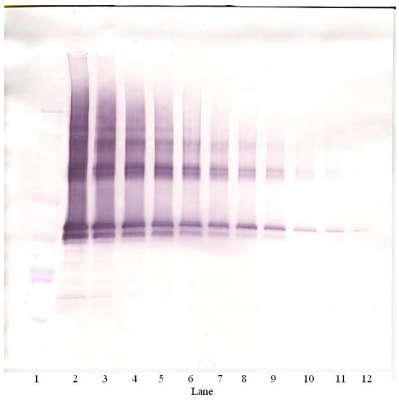
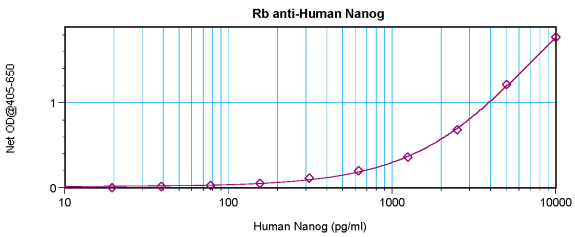


ARG56612 anti-NANOG antibody WB image

Western blot: 250 - 0.24 ng of Human Nanog stained with ARG56612 anti-NANOG antibody, under non-reducing conditions.



ARG56612 anti-NANOG antibody standard curve image

Sandwich ELISA: ARG56612 anti-NANOG antibody as a capture antibody at 0.5 - 2.0 µg/ml combined with ARG56727 anti-NANOG antibody (Biotin) as a detection antibody. Results of a typical standard run with optical density.