

Datasheet for ABIN728758
anti-Nanog antibody (AA 71-170)[Go to Product page](#)

4 Images

3 Publications

Overview

Quantity:	100 µL
Target:	Nanog (NANOG)
Binding Specificity:	AA 71-170
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Nanog antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from mouse Nanog
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Predicted Reactivity:	Rat,Pig
Purification:	Purified by Protein A.

Target Details

Target:	Nanog (NANOG)
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Target Details

Alternative Name:	Nanog (NANOG Products)
Background:	<p>Synonyms: ENK, ecat4, 2412E2Rik, Homeobox protein NANOG, ES cell-associated protein 4, Early embryo specific expression NK-type homeobox protein, Homeobox transcription factor Nanog, Nanog</p> <p>Background: 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.</p>
Gene ID:	71950
UniProt:	Q80Z64
Pathways:	Stem Cell Maintenance

Application Details

Application Notes:	WB 1:300-5000 ELISA 1:500-1000 FCM 1:20-100 IHC-P 1:200-400 IHC-F 1:100-500 IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200 IF(ICC) 1:50-200
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 µg/µL

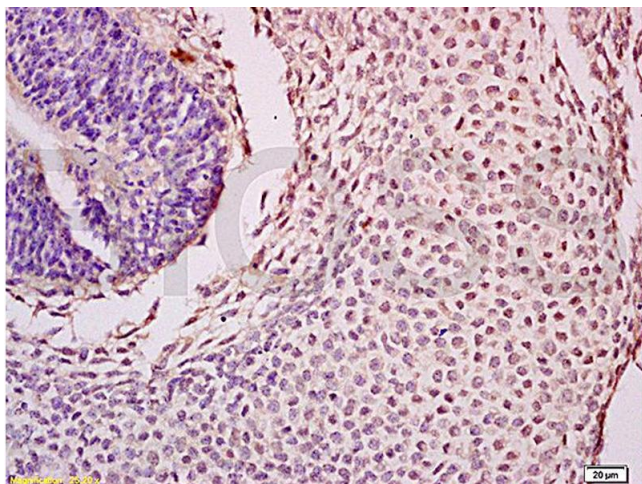
Handling

Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Publications

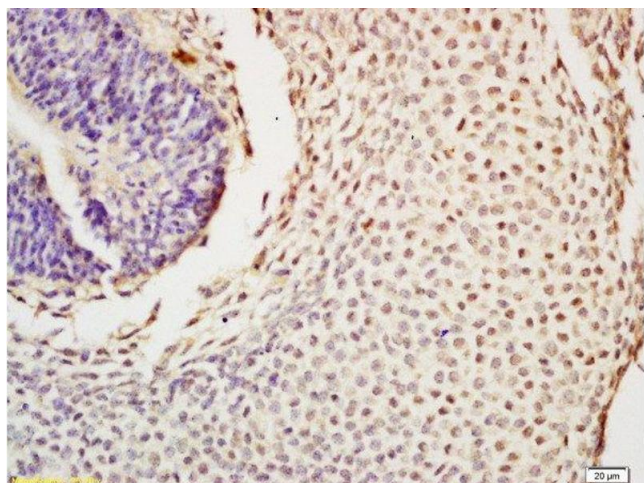
Product cited in:	<p>El-Badawy, Ghoneim, Gabr, Salah, Mohamed, Amer, El-Badri: "Cancer cell-soluble factors reprogram mesenchymal stromal cells to slow cycling, chemoresistant cells with a more stem-like state." in: Stem cell research & therapy, Vol. 8, Issue 1, pp. 254, (2017) (PubMed).</p> <p>Liu, Zhang, Wang, Yang, Tan: "JNK is required for maintaining the tumor-initiating cell-like properties of acquired chemoresistant human cancer cells." in: Acta pharmacologica Sinica, Vol. 36, Issue 9, pp. 1099-106, (2016) (PubMed).</p> <p>Liu, Li, Liu, Sui, Liu, Xiao, Zheng, Chen, Yao, Xing, Zhou, Li: "A signature for induced pluripotent stem cell-associated genes in colorectal cancer." in: Medical oncology (Northwood, London, England), Vol. 30, Issue 1, pp. 426, (2013) (PubMed).</p>
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Images



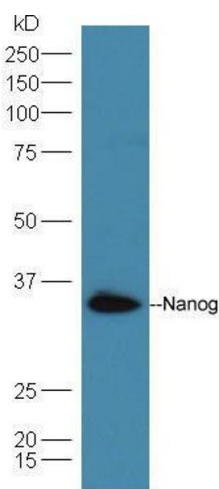
Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded mouse tooth germ tissue labeled with Anti-Nanog Polyclonal Antibody (ABIN728758), Unconjugated at 1:200, followed by conjugation to the secondary antibody and DAB staining



Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Formalin-fixed and paraffin embedded mouse tooth germ tissue labeled with Anti-Nanog Polyclonal Antibody , Unconjugated at 1:200, followed by conjugation to the secondary antibody and DAB staining



Western Blotting

Image 3. Lane 1: A549 cell lysates probed with Rabbit Anti-Nanog Polyclonal Antibody, Unconjugated at 1:5000 for 90 min at 37°C.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN728758.