

Anti-Nanog antibody ab21624

★★★★★ [16 Abreviews](#) [257 References](#) [5 图像](#)

概述

产品名称	Anti-Nanog抗体
描述	兔多克隆抗体to Nanog
宿主	Rabbit
经测试应用	适用于: ICC/IF, WB, Sandwich ELISA
种属反应性	与反应: Human, Recombinant fragment
免疫原	Synthetic peptide corresponding to Human Nanog aa 29-49. Sequence: CGPEENYPQLQSSAEMPSTE

 [Run BLAST with](#)

 [Run BLAST with](#)

常规说明 **Concentration of Anti-Nanog antibody: 0.2 mg/mL**

The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
存储溶液	pH: 7.2 Preservative: 0.1% Sodium azide Constituent: PBS
纯度	Immunogen affinity purified
克隆	多克隆
同种型	IgG

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab21624于以下的经测试应用

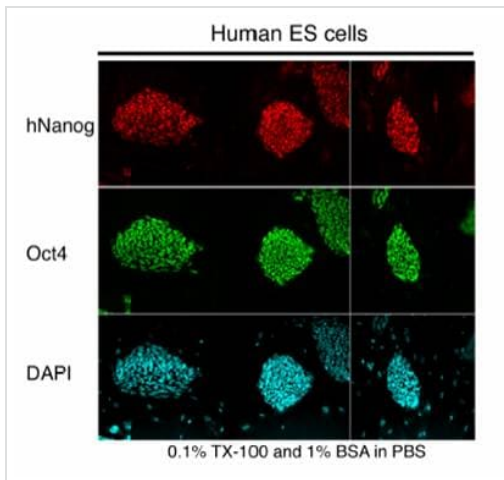
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
ICC/IF	★★★★★ (10)	1/1000.
WB	★★★★☆ (3)	1/200. Detects a band of approximately 38 kDa (predicted molecular weight: 34 kDa). Some users report a stronger signal after blocking and diluting antibodies with 1% BSA instead of 5% milk. Mouse target cannot be detected by WB.
Sandwich ELISA		Use a concentration of 0.5 µg/ml. For sandwich ELISA, use this antibody as Detection at 0.5 µg/ml with Mouse monoclonal [1E6C4] to Nanog (ab76586) as Capture.

靶标

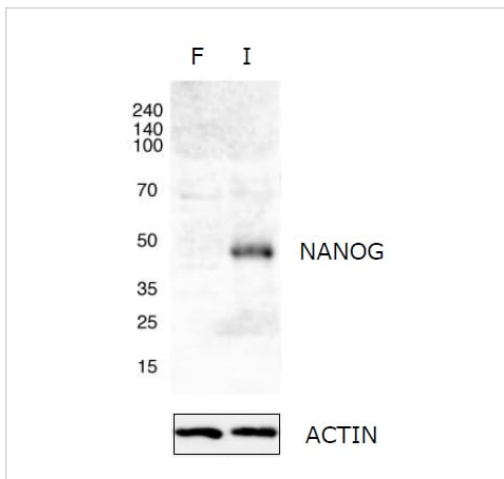
功能	Transcription regulator involved in inner cell mass and embryonic stem (ES) cells proliferation and self-renewal. Imposes pluripotency on ES cells and prevents their differentiation towards extraembryonic endoderm and trophoctoderm lineages. Blocks bone morphogenetic protein-induced mesoderm differentiation of ES cells by physically interacting with SMAD1 and interfering with the recruitment of coactivators to the active SMAD transcriptional complexes (By similarity). Acts as a transcriptional activator or repressor (By similarity). Binds optimally to the DNA consensus sequence 5'-TAAT[GT][GT]-3' or 5'-[CG][GA][CG]C[GC]ATTAN[GC]-3' (By similarity). When overexpressed, promotes cells to enter into S phase and proliferation.
组织特异性	Expressed in testicular carcinoma and derived germ cell tumors (at protein level). Expressed in fetal gonads, ovary and testis. Also expressed in ovary teratocarcinoma cell line and testicular embryonic carcinoma. Not expressed in many somatic organs and oocytes.
序列相似性	Belongs to the Nanog homeobox family. Contains 1 homeobox DNA-binding domain.
发展阶段	Expressed in embryonic stem (ES) and carcinoma (EC) cells. Expressed in inner cell mass (ICM) of the blastocyst and gonocytes between 14 and 19 weeks of gestation (at protein level). Not expressed in oocytes, unfertilized oocytes, 2-16 cell embryos and early morula (at protein level). Expressed in embryonic stem cells (ES). Expression decreases with ES differentiation.
细胞定位	Nucleus.

图片



Immunocytochemistry/ Immunofluorescence - Anti-Nanog antibody (ab21624)

ab21624 at a 1/1000 dilution staining Nanog in human embryonic stem cells by ICC. An antibody towards Oct4, which has an identical staining pattern to ab21624, was used as a positive control.



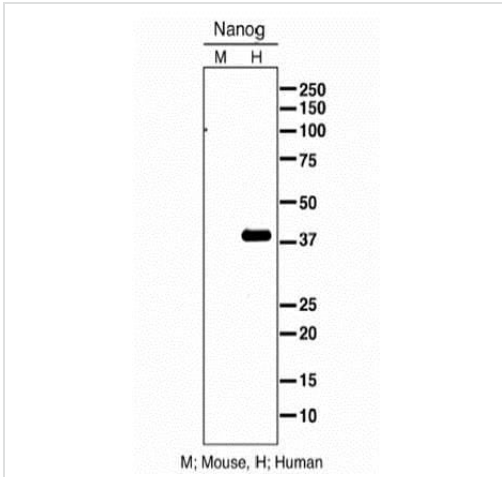
Western blot - Anti-Nanog antibody (ab21624)

All lanes : Anti-Nanog antibody (ab21624) at 1/200 dilution

Lane 1 : Human fetal fibroblast lysate

Lane 2 : Human iPS cell lysate

Predicted band size: 34 kDa



Western blot - Anti-Nanog antibody (ab21624)

All lanes : Anti-Nanog antibody (ab21624) at 1/1000 dilution

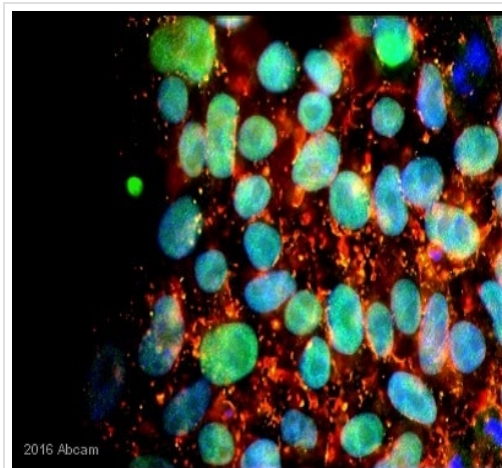
Lane 1 : whole cell extract of mouse 3T3 cells expressing mouse Nanog.

Lane 2 : whole cell extract of mouse 3T3 cells expressing human Nanog.

Predicted band size: 34 kDa

Observed band size: 38 kDa

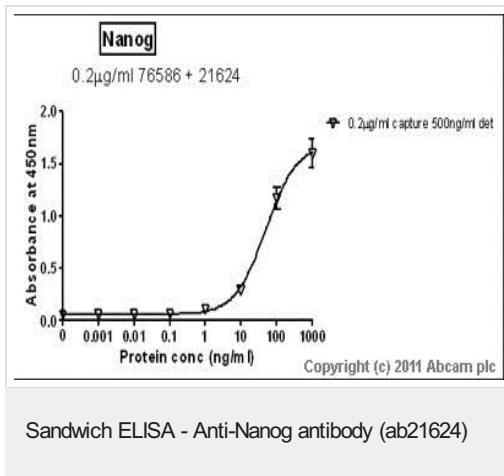
ab21624 recognizes human Nanog but does not recognize mouse Nanog in Western Blot.



Immunocytochemistry/ Immunofluorescence - Anti-Nanog antibody (ab21624)

Image courtesy of Mick Wauchope

Immunocytochemical analysis of Human iPSCs labeling Nanog with ab21624 at 1/75 dilution.



Standard Curve for Nanog (Analyte: **Nanog protein (ab50053)**); dilution range 1 pg/ml to 1 ug/ml using Capture Antibody **Mouse monoclonal [1E6C4] to Nanog (ab76586)** at 0.2 ug/ml and Detector Antibody **Rabbit polyclonal to Nanog - CHIP Grade (ab21624)** at 0.5 ug/ml.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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