abcam

Product datasheet

Anti-Nanog antibody [NNG-811] ab62734

★★★★★ 3 Abreviews 40 References 3 图像

概述

产品名称	Anti-Nanog抗体[NNG-811]
描述	**小鼠单克隆抗体**[NNG-811] to Nanog
宿主	Mouse
经测试应用	**适用于:** WB, ICC/IF, IP
种属反应性	**与反应:** Human
免疫原	Recombinant full length human Nanog.
阳性对照	Extracts of NT2 cells.
常规说明	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. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
存储溶液	pH: 7.40 Preservative: 0.097% Sodium azide Constituent: 0.0268% PBS
纯度	IgG fraction
纯化说明	Purified Immunoglobulin
克隆	单克隆
克隆编号	NNG-811
同种型	IgG1

应用

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab62734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
WB	★★★★★ (1)	Use a concentration of 2 - 4 µg/ml. Detects a band of approximately 40 kDa (predicted molecular weight: 35 kDa).
ICC/IF		Use a concentration of 5 µg/ml.
IP		Use at an assay dependent concentration.

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 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 (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.

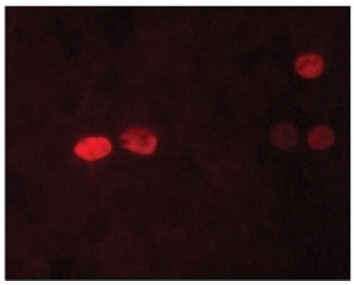
发展阶段

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

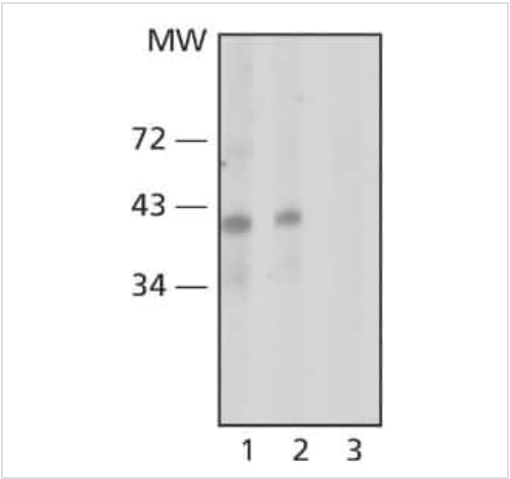
Nucleus.

图片



Immunocytochemistry/ Immunofluorescence - Anti-Nanog antibody [NNG-811] (ab62734)

3T3 mouse fibroblasts were transfected with a mammalian expression vector expressing human Nanog and stained with ab62734 (5 µg/mL) followed by Goat Anti-Mouse, Cy3 conjugate. A clear detection of Nanog can be seen in nuclei of transfected cells.



Western blot - Anti-Nanog antibody [NNG-811] (ab62734)

Lane 1 : Anti-Nanog antibody [NNG-811] (ab62734) at 10 µg/ml
Lane 2 : Anti-Nanog antibody [NNG-811] (ab62734) at 2 µg/ml
Lane 3 : Negative control – no primary antibody

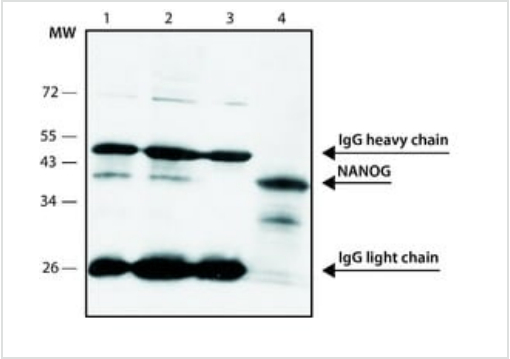
All lanes : Cell extract of NT2 cells

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Mouse IgG

Developed using the ECL technique.

Predicted band size: 35 kDa
Observed band size: 40 kDa



Immunoprecipitation - Anti-Nanog antibody [NNG-811] (ab62734)

Nanog was immunoprecipitated from NT2/D1 (human embryonal testis carcinoma cell line) whole cell extract using ab62734.

Lane 1: 5 µg ab62734 IP in NT2/D1 whole cell extract.
Lane 2: 10 µg ab62734 IP in NT2/D1 whole cell extract.
Lane 3: Negative control without cell extract.
Lane 4: NT2/D1 whole cell extract (input).

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