

## Product datasheet

# Anti-Nanog antibody ab70482

★★★★☆ 4 Abreviews 8 References 2 Images

### Overview

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<b>Product name</b>	Anti-Nanog antibody
<b>Description</b>	Rabbit polyclonal to Nanog
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse
<b>Immunogen</b>	A region between residue 250 and the C-terminus (residue 305) of Mouse Nanog using the numbering given in entry NP_079141.2

### General notes

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

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	pH: 7 Preservative: 0.09% Sodium azide Constituents: 1.815% Tris, 1.764% Sodium citrate, 0.021% PBS
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

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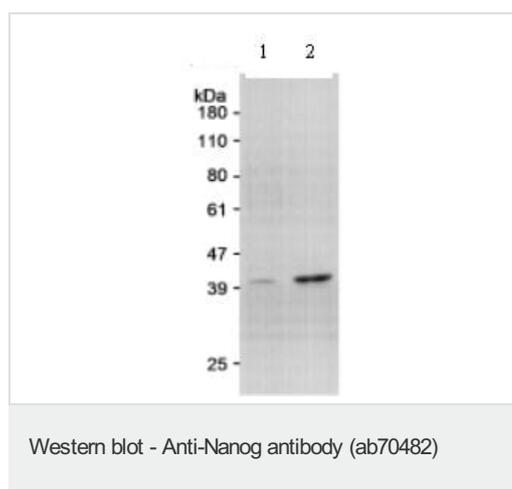
**The Abpromise guarantee** Our [Abpromise guarantee](#) covers the use of ab70482 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★ (2)	1/2000 - 1/10000. Detects a band of approximately 40 kDa (predicted molecular weight: 35 kDa).

## Target

<b>Function</b>	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.
<b>Tissue specificity</b>	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.
<b>Sequence similarities</b>	Belongs to the Nanog homeobox family. Contains 1 homeobox DNA-binding domain.
<b>Developmental stage</b>	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.
<b>Cellular localization</b>	Nucleus.

## Images



**All lanes** : Anti-Nanog antibody (ab70482) at 0.1 µg/ml

**Lane 1** : Whole cell lysate  
from mouse embryonic stem cells at 15 µg

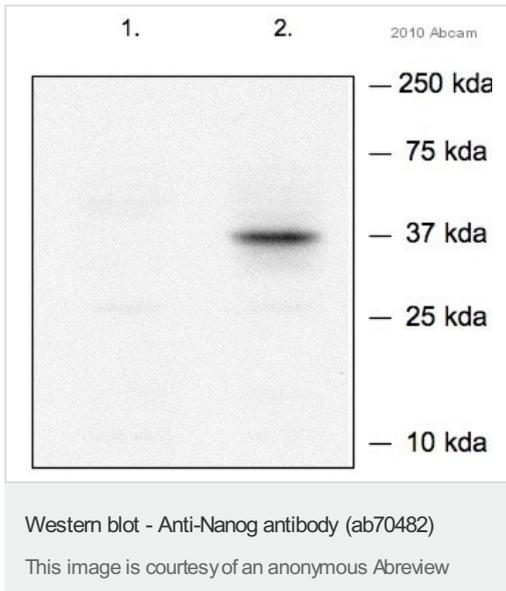
**Lane 2** : Whole cell lysate  
from mouse embryonic stem cells at 50 µg

Developed using the ECL technique.

**Predicted band size:** 35 kDa

**Observed band size:** 39 kDa

**Exposure time:** 12 seconds



**All lanes :** Anti-Nanog antibody (ab70482) at 1/1000 dilution (for 16 hours at 4°C)

**Lane 1 :** Murine Embryonic Fibroblasts (MEFs)

**Lane 2 :** Murine Embryonic Stem (ES) Cells

Lysates/proteins at 50 µg per lane.

**Secondary**

**All lanes :** An HRP-conjugated Donkey anti-rabbit IgG monoclonal at 1/10000 dilution

Developed using the ECL technique.

**Predicted band size:** 35 kDa

**Observed band size:** 40 kDa

**Exposure time:** 1 minute

**Blocking Step:** 3% BSA for 1 hour at 20°C

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

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