# Product datasheet

## Anti-Nanog antibody ab80892

- **Form**: Liquid
- **Storage instructions**: Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
- **Storage buffer**: Preservative: 0.1% Sodium azide  
  Constituent: PBS
- **Purity**: Immunogen affinity purified
- **Clonality**: Polyclonal
- **Isotype**: IgG

## Overview

**Product name**: Anti-Nanog antibody

**Description**: Rabbit polyclonal to Nanog

**Host species**: Rabbit

**Tested applications**: Suitable for: ICC, ICC/IF, IHC-P, Flow Cyt, IHC - Wholemount, WB

**Species reactivity**: Reacts with: Mouse

**Immunogen**: Recombinant full length protein. This information is proprietary to Abcam and/or its suppliers.

**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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## Applications

The Abpromise guarantee Our Abpromise guarantee covers the use of ab80892 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
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 (By similarity). Acts as a transcriptional activator or repressor (By similarity). Binds optimally to the DNA consensus sequence 5'-TAAT[G/T][G/T]-3' or 5'-[C/G][G/A][C/G][G/C]ATTAN[C/G]-3' (By similarity). When overexpressed, promotes cells to enter into S phase and proliferation.

Tissue specificity

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.

Sequence similarities

Belongs to the Nanog homeobox family. Contains 1 homeobox DNA-binding domain.

Developmental stage

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.

Cellular localization

Nucleus.

Application | Abreviews | Notes
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ICC | 🌟🌟🌟🌟🌟 (1) | Use at an assay dependent concentration.
ICC/IF | 🌟🌟🌟🌟🌟 (5) | Use at an assay dependent concentration.
IHC-P | 🌟🌟🌟🌟🌟 (5) | Use at an assay dependent concentration.
Flow Cyt | 🌟🌟🌟🌟🌟 (2) | Use at an assay dependent concentration. ab171870 - Rabbit polyclonal IgG, is suitable for use as an isotype control with this antibody.
IHC - Wholemount | 🌟🌟🌟🌟🌟 (1) | Use at an assay dependent concentration.
WB | 🌟🌟🌟🌟🌟 (3) | Use at an assay dependent concentration.

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
We investigate all quality concerns to ensure our products perform to the highest standards.

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.com/abpromise or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors.