

CA1019

## Nanog Monoclonal Antibody (PR-2E11)

**Prod. No. S2096-100UG**
*For Research Use Only  
Not intended for use in humans or animals*


Orders & Support	866 372-7442 support@primorigen.com
Web	www.primorigen.com

Reacts with	Human*
Tested Applications	WB, ELISA
Host	Mouse
Clone	PR-2E11
Isotype	IgG2a, $\kappa$

*\*Other species not tested*

**Background:** Nanog is a transcription factor that is critical for maintaining embryonic stem (ES) cell pluripotency and preventing differentiation to germ layers and mature cell lineages. The Nanog protein contains a conserved DNA-binding homeobox domain (AA 98-154). When transfected together with other key pluripotent factors such as OCT4 (Pou5F1) and SOX2, Nanog has been used to enhance the reprogramming of somatic cells into induced pluripotent stem (iPS) cells.

**Size:** 100  $\mu$ g

**Immunogen:** Recombinant full-length human Nanog expressed in *E. coli* and refolded to soluble form.

**Purification:** Protein G chromatography

**Formulation:** 1 mg/ml in PBS  
Preservative: 0.09% NaN<sub>3</sub>
**Storage:** Store at 4°C (<3 months) or -20°C.  
Avoid multiple freeze-thaws.

**Recommended Uses:**

Western Blot 1:1000-1:10000

ELISA (detect) 1:1000-1:10000

Note: Optimal concentrations should be empirically determined.

**Target Alternative Names:** Homeobox protein NANOG, Homeobox transcription factor Nanog, hNanog

**Target Size:** 305 residues; 34.6 kDa

**Target Database Links:**

RefSeq Protein NP\_079141.1

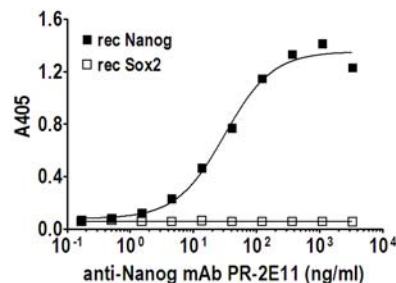
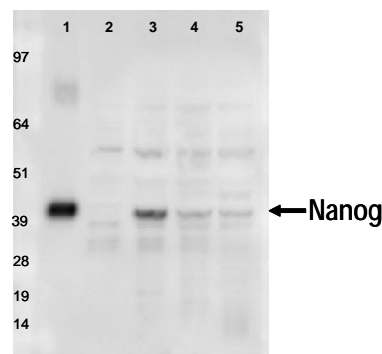
RefSeq Gene NM\_024865.1

SwissProt Q9H9S0

**Applications:**

**(A)** Indirect ELISA detection of immobilized Nanog immunogen with titrated amounts of Nanog mAb (PR-2E11). No binding observed to irrelevant (SOX2) protein.

**(B)** Western blot detection of Nanog using 0.1  $\mu$ g/ml Nanog mAb (PR-4E11): (1) 10 ng Nanog recombinant protein, (2) 20  $\mu$ g untransfected HEK-293 cell lysate, (3) 20  $\mu$ g HEK-293-Nanog transfectant cell lysate, (4) 20  $\mu$ g NTERA-2 cell lysate, and (5) 20  $\mu$ g 2102 cell lysate. The apparent molecular weight of Nanog by electrophoresis is slightly higher than predicted.

*Note: Representative data are shown (not Lot-specific).*
**A. ELISA**

**B. Western Blot**


**Warranty:** Each Lot has been verified to meet quality specifications in accordance with testing guidelines. We will replace the product if it does not conform to specifications. Product guaranteed for 6 months from date of purchase if stored as directed. This product must not be resold without written permission from Primorigen Biosciences.

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