

CA1092

## Nanog Monoclonal Antibody (PR-22F3)

**Prod. No. S2171-100UG**
*For Research Use Only*
*Not intended for use in humans or animals*


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<b>Reacts with</b>	Human*
<b>Tested Applications</b>	Flow, ELISA
<b>Host</b>	Mouse
<b>Clone</b>	PR-22F3
<b>Isotype</b>	IgG3, $\kappa$

*\*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.

### Applications:

**A) Flow Cytometry.** Detection of Nanog in human iPSCs using 1  $\mu$ g antibody stained with anti-mouse IgG FITC Conjugate F(ab')<sub>2</sub>.

**B) ELISA** Indirect ELISA detection of immobilized Nanog immunogen with titrated amounts of Nanog mAb (PR-22F3).

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

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

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

**Purification:** Protein G chromatography

**Formulation:** 0.983 mg/ml in PBS

**Purity:** >90% by SDS-PAGE

**Storage:** Store at 4°C (<3 months) or -20°C. Avoid multiple freeze-thaws.

### Recommended Applications and Dilutions:

ELISA (detect) 1:1000

Flow Cytometry 1  $\mu$ g/10<sup>5</sup> cells

**Note:** Optimal concentrations should be empirically determined.

**IC50:** 460 ng/ml

**Note:** Represents the dilution factor, starting from 1 mg/ml of monoclonal antibody, where 50% of the ELISA signal is present against the antigen used as the immunogen.

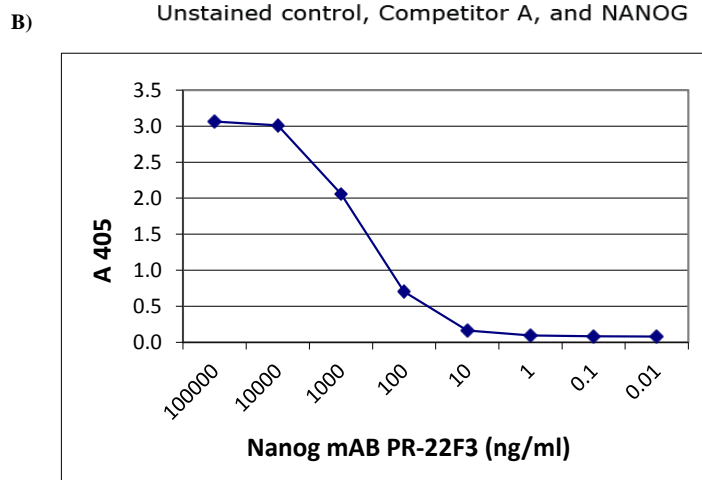
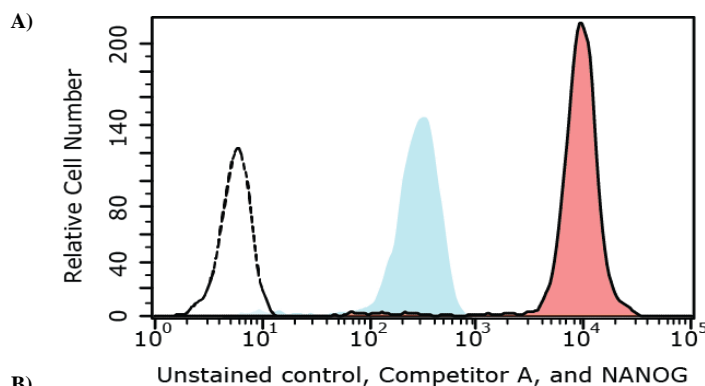
**Target Alternative Names:** Homeobox protein NANOG, Homeobox transcription factor Nanog, hNanog

### Target Database Links:

RefSeq Protein NP\_079141.1

RefSeq Gene NM\_024865.1

SwissProt Q9H9S0



**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.