

CA1092

Nanog Monoclonal Antibody (PR-22D1)

Prod. No. S2173-100UG
For Research Use Only
Not intended for use in humans or animals


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

Reacts with	Human*
Tested Applications	Flow, ELISA
Host	Mouse
Clone	PR-22D1
Isotype	IgG2b, κ

**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 μg antibody stained with anti-mouse IgG FITC Conjugate F(ab')₂.

B) ELISA Indirect ELISA detection of immobilized Nanog immunogen with titrated amounts of Nanog mAb (PR-22D1).

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

Size: 100 μg

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

Purification: Protein G chromatography

Formulation: 0.963 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 μg/10⁵ cells

Note: Optimal concentrations should be empirically determined.

IC50: 50 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.

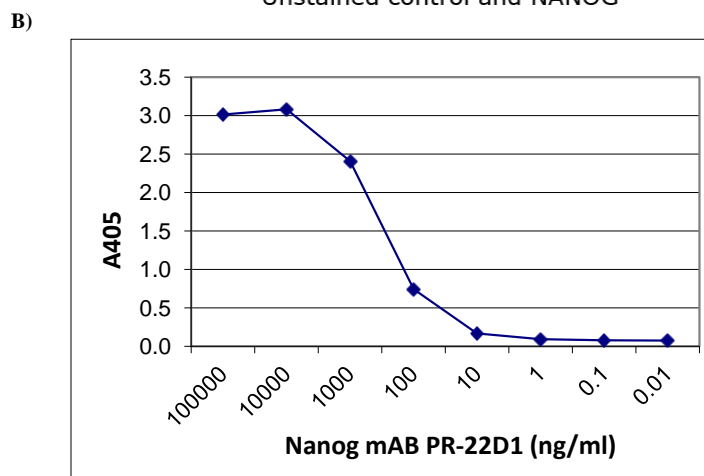
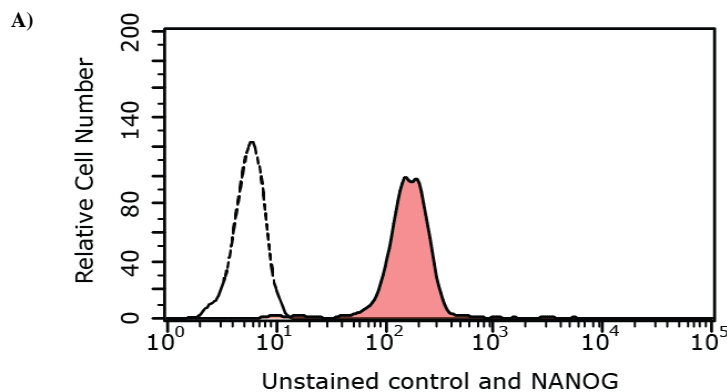
Target Alternative Names: Homeobox protein NANOG, Homeobox transcription factor Nanog, hNanog

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.