

CA1092	Nanog	
	Monoclonal Antibody (PR-17E3)	
	Prod. No. S2170-100UG	Orders & Support 866 372-7442 support@primorigen.com
	<i>For Research Use Only</i> <i>Not intended for use in humans or animals</i>	Web www.primorigen.com

Reacts with	Human*
Tested Applications	Flow, ELISA
Host	Mouse
Clone	PR-17E3
Isotype	IgG2a, 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.

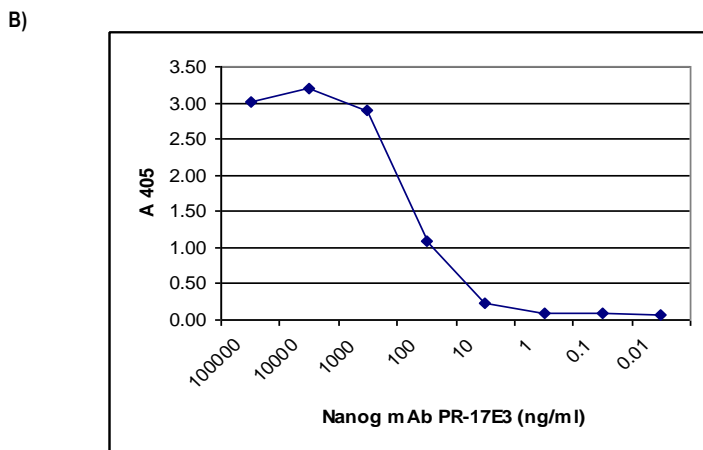
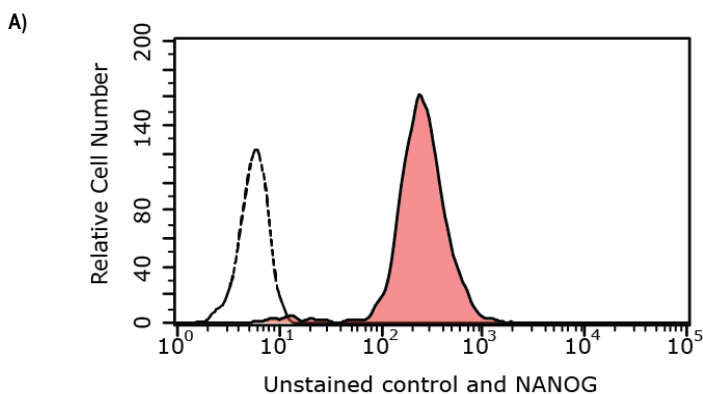
Size: 100 µg
Immunogen: Recombinant full-length human Nanog expressed in <i>E. coli</i> and refolded to soluble form.
Purification: Protein G chromatography
Formulation: 0.983 mg/ml in PBS
Purity: >90% by SDS-PAGE
Storage: Store at 4°C (<3 months) or -20°C. Avoid multiple freeze-thaws.
Recommended Applications and Dilutions:
ELISA (detect) 1:1000
Flow Cytometry 1 µg/10 ⁵ cells
Note: Optimal concentrations should be empirically determined.
IC50: 186 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

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-17E3).

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



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.