

# **Human Nanog PE-conjugated Antibody**

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: IC1997P 100 TESTS

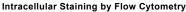
DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human Nanog in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant mouse Nanog is observed.		
Source	Polyclonal Goat IgG		
Purification	Antigen Affinity-purified		
Immunogen	E. coli-derived recombinant human Nanog Trp153-Val305 Accession # ABZ92376		
Conjugate	Phycoerythrin Excitation Wavelength: 488 nm Emission Wavelength: 565-605 nm		
Formulation	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.		
	*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.		

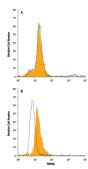
#### **APPLICATIONS**

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Intracellular Staining by Flow Cytometry	10 μL/10 <sup>6</sup> cells	See Below

## DATA





Detection of Nanog in BG01V Human Cells by Flow Cytometry. Three-day Endoderm-differentiated BG01V human embryonic stem cells (upper image) or untreated BG01V human embryonic stem cells (lower image) were stained with Goat Anti-Human Nanog PE-conjugated Antigen Affinity-purified Polyclonal Antibody (Catalog # IC1997P, filled histogram) or isotype control antibody (Catalog # IC108P, open histogram). To facilitate intracellular staining, cells were fixed with Flow Cytometry Fixation Buffer (Catalog # FC004) and permeabilized with Flow Cytometry Permeabilization/Wash Buffer I (Catalog # FC005). View our protocol for Staining Intracellular Molecules.

# PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below

Stability & Storage

Protect from light. Do not freeze.

• 12 months from date of receipt, 2 to 8 °C as supplied.

### BACKGROUND

Nanog is a member of the homeobox family of DNA binding transcription factors that has been shown to maintain pluripotency of embryonic stem cells. Its expression is high in undifferentiated embryonic stem cells and is down-regulated during embryonic stem cell differentiation, concomitant with loss of pluripotency (1–3).

## References:

- 1. Mitsui, K. et al. (2003) Cell 11:631.
- 2. Chambers, I. et al. (2003) Cell 113:643.
- 3. Hart, A.H. et al. (2004) Dev. Dyn. 230:187.

