

Mouse Nanog Alexa Fluor® 488-conjugated Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: IC2729G

100 Tests

DESCRIPTION			
Species Reactivity	Mouse		
Specificity	Detects mouse Nanog in Western blots. In this format, approximately 50% cross-reactivity with recombinant human Nanog is observed.		
Source	Polyclonal Goat IgG		
Purification	Antigen Affinity-purified		
Immunogen	E. coli-derived recombinant mouse Nanog Trp154-Leu262 Accession # Q80Z64		
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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.		

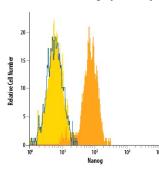
APPLICATIONS

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
Immunocytochemistry	8-25 μg/mL	See Below
Intracellular Staining by Flow Cytometry	5 µL/10 ⁶ cells	See Below

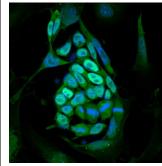
DATA

Intracellular Staining by Flow Cytometry



Detection of Nanog in D3 Mouse Cell Line by Flow Cytometry. D3 mouse embryonic stem cell line either untreated (dark orange filled histogram) or treated with retinoic acid for 3 days (light orange filled histogram) was stained with Goat Anti-Mouse Nanog Alexa Fluor® 488-conjugated Antigen Affinity-purified Polyclonal Antibody (Catalog # IC2729G) or isotype control antibody (Catalog # IC108G, blue 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

Immunocytochemistry



Nanog in D3 Mouse Embryonic Stem Cells. Nanog was detected in immersion fixed D3 mouse embryonic stem cell line on irradiated mouse embryonic fibroblasts using Goat Anti-Mouse Nanog Alexa Fluor® 488-conjugated Antigen Affinity-purified Polyclonal Antibody (green; Catalog # IC2729G) at 10 μg/mL for 3 hours at room temperature. Cells were counterstained with DAPI (blue). Specific staining was localized to nuclei. View our protocol for Fluorescent ICC Staining of Stem Cells on Coverslips.

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.

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PRODUCT SPECIFIC NOTICES

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