Datasheet for ABIN969308

anti-Nanog antibody (AA 20-166)

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Overview

Quantity:	100 µL
Target:	Nanog (NANOG)
Binding Specificity:	AA 20-166
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Nanog antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunocytochemistry (ICC)

Product Details

Immunogen:	Purified recombinant fragment of NANOG (aa20-166) expressed in E. coli.
Clone:	1E6C4
Isotype:	IgG1
Purification:	purified

Target Details

Target:	Nanog (NANOG)
Alternative Name:	NANOG (NANOG Products)
Background:	Description: NANOG: Nanog homeobox. Entrez Protein NP_079141. Nanog is a divergent homeodomain protein that directs pluripotency and differentiation of undifferentiated

Target Details

	embryonic stem cells. Nanog mRNA is present in pluripotent mouse and human cell lines, and absent from differentiated cells. Human Nanog protein shares 52 % overall amino acid identity with the mouse protein and 85 % identity in the homeodomain. Human Nanog maps to gene locus 12p13.31, whereas mouse Nanog maps to gene loci 6 F2. Murine embryonic Nanog expression is detected in the inner cell mass of the blastocyst. High levels of human Nanog expression were detected by Northern analysis in the undifferentiated N-Tera embryonal carcinoma cell line. Aliases: NANOG
Molecular Weight:	35 kDa
Gene ID:	79923
HGNC:	79923
Pathways:	Stem Cell Maintenance

Application Details

Application Notes:	ELISA: 1:10000, WB: 1:500 - 1:2000, ICC: 1:200 - 1:1000
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Ascitic fluid containing 0.03 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C/-20 °C
Storage Comment:	4°C, -20°C for long term storage

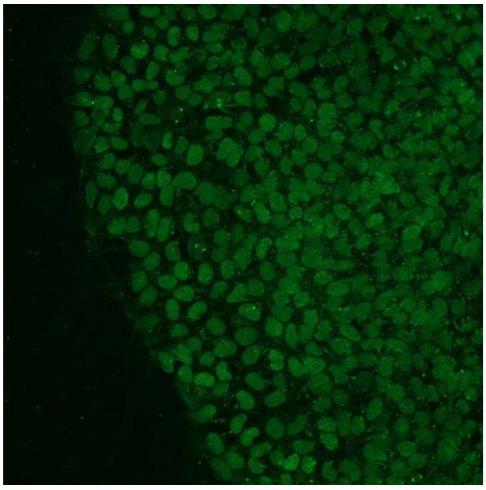
Publications

Product cited in:	Dupasquier, Abdel-Samad, Glazer, Bastide, Jay, Joubert, Cavaillès, Blache, Quittau-Prévostel: "A new mechanism of SOX9 action to regulate PKCalpha expression in the intestine epithelium." in: **Journal of cell science**, Vol. 122, Issue Pt 13, pp. 2191-6, (2009) (PubMed).

Publications

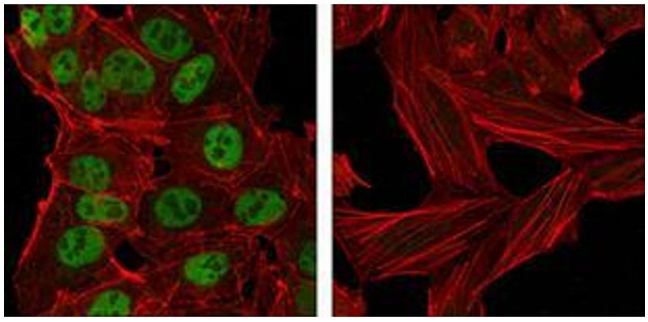
Gordon, Tan, Benko, Fitzpatrick, Lyonnet, Farlie: "Long-range regulation at the SOX9 locus in development and disease." in: **Journal of medical genetics**, Vol. 46, Issue 10, pp. 649-56, (2009) (PubMed).

Images



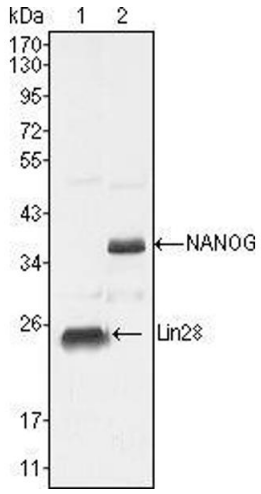
Immunocytochemistry

Image 1. Figure 1:



Immunofluorescence

Image 2. Confocal immunofluorescence analysis of NTERA-2 cells (left) and HeLa cells (right) using Nanog mouse mAb (green). Red: Actin filaments have been labeled with DY-554 phalloidin.



Western Blotting

Image 3. Western blot analysis using NANOG mouse mAb against NTERA-2 cell lysate (2).