

Datasheet for ABIN306464

**anti-Nanog antibody (AA 1-154)**[Go to Product page](#)**2** Images

## Overview

Quantity:	100 µL
Target:	Nanog (NANOG)
Binding Specificity:	AA 1-154
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Nanog antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Flow Cytometry (FACS)

## Product Details

Immunogen:	Recombinant human Nanog (1-154aa) purified from E. coli
Clone:	5A10
Isotype:	IgG2a kappa
Purification:	The antibody was purified from mouse ascitic fluids by protein-G affinity chromatography

## Target Details

Target:	Nanog (NANOG)
Alternative Name:	Nanog ( <a href="#">NANOG Products</a> )
Background:	Nanog is a multidomain homeobox transcription factor that functions to maintain the undifferentiated state of pluripotent stem cells. Nanog expression counteracts the

## Target Details

differentiation-promoting signals induced by the extrinsic factors LIF, Stat3 and BMP. When Nanog expression is downregulated, cell differentiation can proceed. Proteins that regulate Nanog expression include transcription factors Oct4, SOX2, FoxD3, and Tcf3 and tumor suppressor p53.

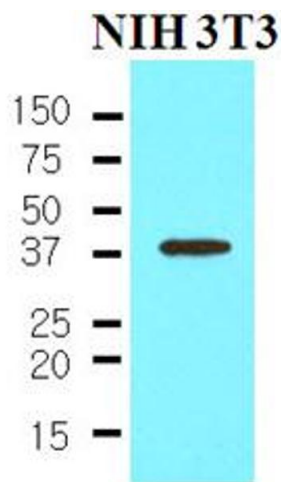
NCBI Accession:	<a href="#">NP_079141</a>
Pathways:	<a href="#">Stem Cell Maintenance</a>

## Application Details

Application Notes:	Recommended dilution 1:500
Restrictions:	For Research Use only

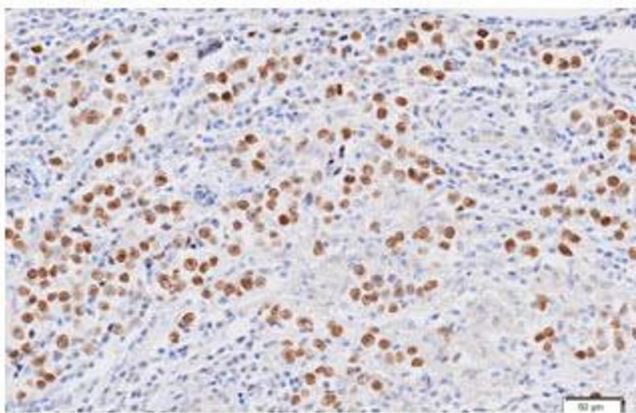
## Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	In Phosphate-Buffered Saline (pH7.4) with 0.1% 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,-80 °C
Storage Comment:	Can be stored at +2°C to +8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.



#### Western Blotting

**Image 1.** Western blot analysis: The cell lysates of NIH3T3 (35ug) were resolved by SDS-PAGE, transferred to NC membrane and probed with anti-human Nanog (1:500). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.



Human seminoma tissue

#### Immunohistochemistry

**Image 2.** Paraffin embedded sections of human seminoma tissue were incubated with anti-human Nanog (1:50) for 2 hours at room temperature. Antigen retrieval was performed in 0.1M sodium citrate buffer and detected using Diaminobenzidine (DAB)