

Datasheet for ABIN6972401  
**anti-Nanog antibody (AA 2-25)**



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## Overview

Quantity:	100 µg
Target:	Nanog (NANOG)
Binding Specificity:	AA 2-25
Reactivity:	Mouse
Host:	Rat
Clonality:	Monoclonal
Conjugate:	This Nanog antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunocytochemistry (ICC)

## Product Details

Immunogen:	This antibody was raised against a peptide comprising amino acids 2-25 of mouse Nanog.
Clone:	2E6E1
Isotype:	IgG2a
Characteristics:	Nanog (Nanog homeobox) is a transcriptional regulator involved in inner cell mass and embryonic stem (ES) cells proliferation and self-renewal. Imposes pluripotency on ES cells and prevents their differentiation towards extraembryonic endoderm and trophectoderm lineages. Blocks bone morphogenetic protein-induced mesoderm differentiation of ES cells by physically interacting with SMAD1 and interfering with the recruitment of coactivators to the active SMAD transcriptional complexes (By similarity). Acts as a transcriptional activator or repressor (By similarity). Binds optimally to the DNA consensus sequence 5'-TAAT[GT][GT]-3' or 5'-[CG][GA][CG]C[GC]ATTAN[GC]-3' (By similarity). When overexpressed, promotes cells to enter

## Product Details

into S phase and proliferation (By similarity). Nanog antibody (mAb) (Clone 2E6E1) was raised in a Rat host. It has been validated for use in Immunocytochemistry, Immunofluorescence and Western blot, it has been shown to react with Mouse samples.

Purification: Protein G Chromatography

## Target Details

Target: Nanog (NANOG)

Alternative Name: Nanog ([NANOG Products](#))

Molecular Weight: 45 kDa

NCBI Accession: [NP\\_001276757](#)

Pathways: [Stem Cell Maintenance](#)

## Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

## Handling

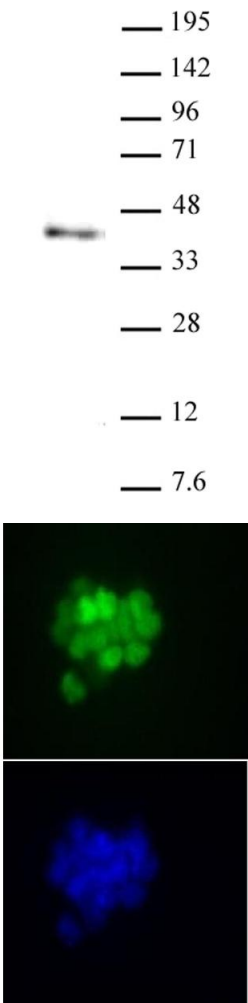
Buffer: Purified IgG in PBS with 30 % glycerol and 0.035 % sodium azide.

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: -20 °C

Storage Comment: Avoid repeated freeze/thaw cycles by aliquoting items into single-use fractions for storage at -20°C for up to 2 years. Keep all reagents on ice when not in storage.



Western Blotting

**Image 1.** Nanog antibody (mAb) (Clone 2E6E1) tested by Western blot. Nanog antibody detection by Western blot. The analysis was performed using 30 µg of mouse ES nuclear extract and Nanog antibody at a 2 µg/mL dilution.

Immunofluorescence

**Image 2.** Nanog antibody (mAb) (Clone 2E6E1) tested by immunofluorescence. Top: HeLa cells stained with Nanog antibody (mAb). Bottom: Hoechst staining.