

Datasheet for ABIN6990937

**anti-Nanos Homolog 1 antibody (AA 160-210)**[Go to Product page](#)

## Overview

Quantity:	0.1 mg
Target:	Nanos Homolog 1 (NANOS1)
Binding Specificity:	AA 160-210
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Nanos Homolog 1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF)

## Product Details

Immunogen:	Nanos1 antibody was raised against a 14 amino acid synthetic peptide from near the center of human Nanos1. The immunogen is located within amino acids 160 - 210 of Nanos1.
Isotype:	IgG
Purification:	Nanos1 Antibody is affinity chromatography purified via peptide column.

## Target Details

Target:	Nanos Homolog 1 (NANOS1)
Alternative Name:	Nanos1 ( <a href="#">NANOS1 Products</a> )
Background:	Nanos1 Antibody: Nanos1 is one of three known mammalian homologs to the Drosophila gene nanos. Nanos1 is an RNA-binding protein containing a zinc-finger motif and is expressed in the developing nervous system and continues in the adult brain. Interestingly, unlike mice deficient

## Target Details

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in either nanos2 or nanos3, mice lacking the nanos1 gene develop normally with no sign of abnormalities. Recently it has been found that expression of nanos1 mRNA is down-regulated by E-cadherin in a human breast cancer cell line and the amino-terminal domain on Nanos1 interacts with the E-cadherin-binding protein p120ctn. Furthermore, overexpression of Nanos1 in human colorectal DLD1 cancer cells functionally abolished cell-cell adhesion, allowing the cancer cells to develop strong migratory and invasive properties. These results suggest that targeting Nanos1 might prove an effective strategy in the treatment of E-cadherin-negative tumors.

Gene ID: 340719

UniProt: [Q8WY41](#)

Pathways: [Negative Regulation of Hormone Secretion, Myometrial Relaxation and Contraction](#)

## Application Details

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Application Notes: Nanos1 antibody can be used for detection of Nanos1 by Western blot at 1 - 2  $\mu$ g/mL. For immunofluorescence start at 20  $\mu$ g/mL.

Antibody validated: Western Blot in rat samples and Immunofluorescence in human samples.  
All other applications and species not yet tested.

Restrictions: For Research Use only

## Handling

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Format: Liquid

Concentration: 1 mg/mL

Buffer: Nanos1 Antibody is supplied in PBS containing 0.02 % 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, 4 °C

Storage Comment: Nanos1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.