# Nanos2 (H-64): sc-292082



The Power to Question

### **BACKGROUND**

Nanos2, also known as NOS2, is a 138 amino acid protein that contains one Nanos-type zinc finger. The nanos-type zinc finger is comprised of two C2HC motifs, each of which are capable of binding one molecule of zinc and each of which work in tandem to play essential roles in translational regulation events. Expressed specifically in male germ cells, Nanos2 is essential for spermatogonia formation and is required to support the self-renewal, proliferation and overall development of proximal germ cells. Additionally, Nanos2 is thought to regulate the translation of target mRNAs, possibly by associating with the 3'-UTR of select transcripts. The gene encoding human Nanos2 maps to chromosome 19, which is the genetic home for a number of immunoglobulin superfamily members, including the killer cell and leukocyte lg-like receptors, a number of ICAMs, the CEACAM and PSG family and Fc receptors (FcRs).

## **REFERENCES**

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- 3. Tsuda, M., et al. 2003. Conserved role of Nanos proteins in germ cell development. Science 301: 1239-1241.
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### CHROMOSOMAL LOCATION

Genetic locus: NANOS2 (human) mapping to 19q13.32.

## **SOURCE**

Nanos2 (H-64) is a rabbit polyclonal antibody raised against amino acids 1-64 mapping at the N-terminus of Nanos2 of human origin.

### **PRODUCT**

Each vial contains 200  $\mu g$  lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-292082 X, 200  $\mu g$ /0.1 ml.

### **RESEARCH USE**

For research use only, not for use in diagnostic procedures.

#### **APPLICATIONS**

Nanos2 (H-64) is recommended for detection of Nanos2 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for Nanos2 siRNA (h): sc-75866, Nanos2 shRNA Plasmid (h): sc-75866-SH and Nanos2 shRNA (h) Lentiviral Particles: sc-75866-V.

Nanos2 (H-64) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of Nanos2: 18 kDa.

### **RECOMMENDED SECONDARY REAGENTS**

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

#### **STORAGE**

Store at 4° C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

# **PROTOCOLS**

See our web site at www.scbt.com or our catalog for detailed protocols and support products.



Try Nanos2 (B-12): sc-393794 or Nanos2 (A-8): sc-393868, our highly recommended monoclonal alternatives to Nanos2 (H-64).

Santa Cruz Biotechnology, Inc. 1.800.457.3801 831.457.3801 Fax 831.457.3801 Europe +00800 4573 8000 49 6221 4503 0 www.scbt.com